

19981030.qrp v01_n261.qrs.981030

Date: Fri, 30 Oct 1998 19:04:59 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1261

QRP-L Digest 1261

Topics covered in this issue include:

- 1) [23537] WTB KVG crystal filter
by James Skalski <jskalski@buffnet.net>
- 2) [23538] W9GR early DSP boards available
by mikemo@ibm.net
- 3) [23539] Re: keyboard cw
by Wayne Alexander <walexan@ipa.net>
- 4) [23540] Notebooks - delete if you have no sense of humor.
by Ed Manuel <n5em@flash.net>
- 5) [23541] RE: how to measure SSB power
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 6) [23542] 4.194 MHz Crystals
by Tim Ahrens <tahrens@inetport.com>
- 7) [23543] RE: Scope Probes
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 8) [23544] Ultra-Lite Ant. "KNOT"
by dave_epps@juno.com
- 9) [23545] OHR rig sale
by bchurch@megavision.com
- 10) [23546] Forsale JPS NIR-12 DSP Unit
by Bill Nicolson <n2wf@erols.com>
- 11) [23547] wire cutters
by ac5ez@webtv.net (Larry B)
- 12) [23548] Fox: When Ron says QSY...
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
- 13) [23549] Re: Dashes on right paddle or left?
by w4bws@juno.com (Donald E Sanders)
- 14) [23550] Re: Zip-Cord antenna/Ultra-Light Antenna
by w4bws@juno.com (Donald E Sanders)
- 15) [23551] Re: Copy CW Challenge
by w4bws@juno.com (Donald E Sanders)
- 16) [23552] Re: Got my 1st Fox - What fun !
by Vince Kumagai <sonofullr@idcomm.com>
- 17) [23553] Re: 2N2/40 FOX Contact
by "Jim Kortge, K8IQY" <jokortge@cwix.com>
- 18) [23554] FOX: Got Him!
by N9DD@aol.com
- 19) [23555] Re: Fox-KU7Y-0100z Tonight!

- by mwattcpa@earthlink.net (Marty Watt)
- 20) [23556] Fox Sked
by Thom <thom@li.net>
 - 21) [23557] Re: Fox-KU7Y-0100z Tonight!
by Chuck Carpenter <w5usj@webwide.net>
 - 22) [23558] FS: AT-11 (QRO version)
by "Randy Moore" <wr.moore@worldnet.att.net>
 - 23) [23559] EXCELLENCE OF THE FOXII
by Tom Palmer <n1tp@worldnet.att.net>
 - 24) [23560] Re: FOX QRM?
by Vic Rosenthal <rakefet@rakefet.com>
 - 25) [23561] Re: how to measure SSB power
by Dave Sjolin <sjolin@swbell.net>
 - 26) [23562] NABBED FOX AND POACHER
by ARDUJENSKI@aol.com
 - 27) [23563] Fox: whoa, whata fox!
by Tim Ahrens <tahrens@inetport.com>
 - 28) [23564] FOX: EXCELLENCE OF THE FOXII
by "Paul R. Valko" <prvalko@oakland.edu>
 - 29) [23565] BCB Harmonics on 2940 KHz?
by wb2vuo@juno.com (W. K. Hibbert)
 - 30) [23566] Re: how to measure SSB power
by DYARNES@aol.com
 - 31) [23567] ZOMBIE SHUFFLE UPDATE
by Paul Harden <pharden@aoc.nrao.edu>
 - 32) [23568] WTB: SST kit or built
by Dave Redfearn <n4elm@texoma.net>
 - 33) [23569] ZOMBIE BONUS POINT STATIONS
by Paul Harden <pharden@aoc.nrao.edu>
 - 34) [23570] OFFICIAL ZOMBIE SHUFFLE RULES (again)
by Paul Harden <pharden@aoc.nrao.edu>
 - 35) [23571] Re: BCB Harmonics on 2940 KHz?
by "George T. Baker" <w5yr@swbell.net>
 - 36) [23572] Re: ZOMBIE BONUS POINT STATIONS
by Roger Hightower <n7kt@earthlink.net>
 - 37) [23573] SHUNT MATCHING
by ARDUJENSKI@aol.com
 - 38) [23574] Re: how to measure SSB power
by Dave Sjolin <sjolin@swbell.net>
 - 39) [23575] Late Pacificon comments
by mike czuhajewski <wa8mcq@erols.com>
 - 40) [23576] Re: FOX QRM?
by "Rud Merriam" <rmerriam@csi.com>
 - 41) [23577] Re. BCB harmonics
by Pete Burbank <plburbank@kih.net>
 - 42) [23578] Dreaded ZBM-2
by dave_epps@juno.com
 - 43) [23579] Fox log for KU7Y

by Monte Stark <ku7y@dri.edu>
44) [23580] test, ignore
by Arjen Raateland <Arjen.Raateland@vyh.fi>
45) [23581] CMOS Super Keyer from Idiom Press
by Lars Olsson <sm3avq@ebox.tninet.se>
46) [23582] new qrp home page
by Alen Mitrovic <alenm@hermes.si>
47) [23583] Zombie Shuffle
by Rick Sealey <rsealey@InfoAve.Net>
48) [23584] W9GR DSP, 2 boards left
by mikemo@ibm.net
49) [23585] Re: keyboard cw
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
50) [23586] Re: SHUNT MATCHING
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
51) [23587] BCB Harmonics on 2940 KHz?
by "Bryan Turner" <turnerw@email.uah.edu>
52) [23588] Re: BCB Harmonics on 2940 KHz?
by jeverhar@cse.l-3com.com
53) [23589] Fireball on the air
by Jim <kj5tf@madisoncounty.net>
54) [23590] RE: SHUNT MATCHING
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
55) [23591] Re: how to measure SSB power
by kv7g@juno.com
56) [23592] QRP-L Web Archive
by lujce@Lehigh.EDU
57) [23593] listserv.lehigh.edu...
by =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@rocketmail.com>
58) [23594] Re: ZOMBIE BONUS POINT STATIONS
by Paul Harden <pharden@aoc.nrao.edu>
59) [23595] Re: Tayloe Mixer
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
60) [23596] Re: BCB Harmonics on 2940 KHz?
by Reed Park <reedpark@nbnet.nb.ca>
61) [23597] cascaded noise
by "ROBERT EVANS" <revans@sarnoff.com>
62) [23598] RE: how to measure SSB power
by Denton Bramwell W7DB <Denton@Bramwell.Org>
63) [23599] Re: Tayloe Mixer
by Roger Traylor <traylor@ECE.ORST.EDU>
64) [23600] Prime numbers
by Grant Taylor <k7gt@qsl.net>
65) [23601] W9GR DSP-I (Multiprogram Chip) for sale
by "Hugo W. Catta" <hugo@banet.net>
66) [23602] Re: Fox log for KU7Y
by Bertie Hightower <bertieh@extremezone.com>
67) [23603] Need Mag Mount Antenna Help

by pabraham@NOKNHN01DA.ntc.nokia.com (Abraham Peter NTC/Dallas)

68) [23604] Re: cascaded noise
by "ROBERT EVANS" <revans@sarnoff.com>

69) [23605] Re: Tayloe Mixer
by John Levreault <jlevro@mediaone.net>

70) [23606] Re: new qrp home page
by "Bruce Prior" <n7rr@hotmail.com>

71) [23607] BCB Harmonics at 2940 KHZ
by "Barnaby J.O'Leary" <barnaby@ap.net>

72) [23608] FOX: Periodic Rules Reposting
by "Paul R. Valko" <prvalko@oakland.edu>

73) [23609] BOOKS
by Brad Mugleston <bmug@gwl.com>

74) [23610] FS QRP RIGS/MISC
by n1wcc@juno.com (Arol B Hill)

75) [23611] Hi on 15 mtrs.
by "david r" <elbc@pivot.net>

76) [23612] Re: BOOKS
by "John Moriarity" <k6qq@hdo.net>

77) [23613] Hi-Mound MK702 single lever paddle for sale/trade
by Scott Howell <whowell@hq.nasa.gov>

78) [23614] Books
by Brad Mugleston <bmug@gwl.com>

79) [23615] noise in cascade
by "ROBERT EVANS" <revans@sarnoff.com>

80) [23616] MAIL LOST
by "John Moriarity" <k6qq@hdo.net>

81) [23617] Filter
by "C. Lamar Derk" <n3at@epix.net>

82) [23618] Re: Filter
by "Bryan Turner" <turnerw@email.uah.edu>

83) [23619] FOX:Team Scores (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>

84) [23620] Re: how to measure SSB power
by Terry Conboy <terry.conboy@airtouch.com>

85) [23621] A Small Note with a lot of Prime Numbers.
by Ed Manuel <n5em@flash.net>

86) [23622] Re: SHUNT MATCHING
by Terry Conboy <terry.conboy@airtouch.com>

87) [23623] Re: Prime numbers
by Bob Hightower <ki7mn@extremezone.com>

88) [23624] Re: Fox log for KU7Y
by "Marshall Emm" <mgemm@mtechnologies.com>

89) [23625] Re: Zombie Prime Numbers
by Paul Harden <pharden@aoc.nrao.edu>

90) [23626] OHR-500 ON AIR
by SABorns@aol.com

91) [23627] RE: Zombie Prime Numbers

- by Sam Billingsley <SBillingsley@usaninc.com>
- 92) [23628] RC Combinations to Reduce Noise?
by "James R. Duffey" <ji3m@maxwell.com>
- 93) [23629] FOX: California woes
by "Barry L. Geipel" <bgeipel@primenet.com>
- 94) [23630] Few Items For Sale...cheap
by jalbertin@juno.com (Jerry Albertin)
- 95) [23631] Hi-Mound MK702 for sale/trade reposted
by Scott Howell <whowell@hq.nasa.gov>
- 96) [23632] FW: Zombie Prime Numbers
by Sam Billingsley <SBillingsley@usaninc.com>
- 97) [23633] Another Grand Zombie
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 98) [23634] Schematics for Elmer 200 on K5FO Web page?
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 99) [23635] ZOMBIE SHUFFLE - Tech+, KF6NKH - Operating time and freq
by Bob Painter <turnkey@exo.com>
- 100) [23636] Atlanticon announces first speakers!
by "George Heron" <gheron@idt.net>
- 101) [23637] re: Items for sale
by wa4dou@mailexcite.com
- 102) [23638] Elvis
by talljazz@teleport.com (Dan Presley)
- 103) [23639] MFJ 9020 for sale
by "Karl Heimbach" <heimbach@concentric.net>
- 104) [23640] Resonant Speaker Research
by Ed Loranger <we6w@qsl.net>
- 105) [23641] Not QRP...
by Niel Skousen <nskousen@scientech.com>
- 106) [23642] Re: Elvis
by Paul Harden <pharden@aoc.nrao.edu>

Date: Thu, 29 Oct 1998 19:12:34 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: qrp-1@Lehigh.EDU
Subject: [23537] WTB KVG crystal filter
Message-ID:
<Pine.LNX.4.03.9810291902010.2795-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

look in your junque boxes... I need a KVG-XL-10M or a KVG XF-9NB filter.
The second one is preferred since I think it has a 500ohm termination
resistance which matches my SSB filter.
BTW this is a 9 mHz filter.

73,

Jim (N2G0)

Date: Thu, 29 Oct 1998 19:03:56 -0500
From: mikemo@ibm.net
To: qrp <qrp-1@Lehigh.EDU>
Subject: [23538] W9GR early DSP boards available
Message-ID: <3639026C.4F66@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've been working with George Hernon on getting together some DSP software/hardware for experimentation. We have focused on starting with the early W9GR dsp unit as Dave (W9GR) has made the code and schematics available to the experimenter.

George has dug up a limited source of circuit boards for the early DSP systems that we will be developing on. The cost is \$20 each plus shipping. We only have 10, so the first 10 responses I have in my email in basket will get them. (If you already contacted me don't worry, you got one ;-)

Just for reference, the DSP and the A/D D/A converter will cost about \$15. Not sure about the high speed proms. Other assorted parts should be a few pennies.

I have already modified the original source code so that it will assemble with the TASM shareware assembler. Our goal is to make this a DSP development system so that we can play with the software (and maybe learn something).

If you are not interested in experimenting and just want a DSP for your

system, you are probably better off getting one of the new kits from W9GR. I think they are \$149. A good deal for a really good DSP.

Anyway, if interested reply to me (not the list) and I'll put the first 10 responses on the buy list. The boards are available immediatly so I'll be collecting checks ASAP.

72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Thu, 29 Oct 1998 18:15:28 -0600
From: Wayne Alexander <walexan@ipa.net>
To: kq0i@juno.com, qrp-l@lehigh.edu
Subject: [23539] Re: keyboard cw
Message-ID: <199810300016.SAA08460@ns3.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Must be talking about Computer CW. Are you going to have the Computer copy it for you also. HI hi

At 12:12 PM 10/29/98 -0500, you wrote:

>I'm noticing that I'm not as good with the keyer as I once was. Some of
>it is not being on the air enough, but I'm sure some of it is due to age.
>Whatever the reason, I'm going to start experimenting with sending by
>keyboard. I have an MFJ 1278 TNC which has some memory buffers
>available.

>

>Any advice from those of you that use keyboards and memories and such for
>CW?

>

>Thanks for your thoughts.

>

>72/73 Mark KQ0I

>Des Moines, Iowa EN31

>

>

>-----
>You don't need to buy Internet access to use free Internet e-mail.

>Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

>or call Juno at (800) 654-JUNO [654-5866]

>

73,

KB0PTE

Wayne

FISTS # 4907

QRP-L # 1058

Date: Thu, 29 Oct 1998 18:42:58 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-1@lehigh.edu
Subject: [23540] Notebooks - delete if you have no sense of humor.
Message-ID: <3.0.5.32.19981029184258.008fc600@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Regarding notebooks (I'm hoping this isn't another
>silly thread....)
>

Some old sage wisdom might be in order.

There are two ways to assure job security in the modern world.

1. Never write anything down - memorize everything.

If you can't manage that,

2. Write everything down in a notebook, and take it home.

Ed, N5EM
Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Thu, 29 Oct 1998 18:02:58 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [23541] RE: how to measure SSB power
Message-ID: <5103124387F8D11199DD00A0C925E4B91735@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

>>just started back on SSB but both my meters
measure average power ...so how do i get a fairly accurate read
on my power???????.....<<<

option 1: Tune on CW, and measure power there. A normally operating SSB transmitter will generate peaks equal to the power of the CW.

option 2: Convert your SWR meter to a "peak hold" type. Circuits for this are abundant and simple, and change only the metering part of the circuit.

Date: Thu, 29 Oct 1998 19:01:55 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-l@lehigh.edu
Subject: [23542] 4.194 mHz Crystals
Message-ID: <36391003.144FA20A@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Anybody need some 4.194 mhz xtals? This isn't the 'standard' 4.91.. that lotsa folks use in filters, but I have about 1000 of em, & didn't want them to go to the bin. They are in the small (1/4" high) case.

please e-mail me direct.

Thanks,

Tim W5FN

Date: Thu, 29 Oct 1998 18:14:53 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [23543] RE: Scope Probes
Message-ID: <5103124387F8D11199DD00A0C925E4B91736@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

>>Concerning passive scope probes, what factors limit their bandwidth?<<

A lot of different things.

First, you need a probe with at least 3X the BW of your oscilloscope, and 5X is better. Think of the vertical amp as a very wide low pass filter, and the probe as another low pass filter. Putting the probe on

your scope cascades the two filters, and the BW is a square root of the sum of the squares sort of thing.

One big limit is the probe tip input capacitance. Probes are generally specified when attached to a terminated 50 ohm source. Poke your probe into a 2K ohm source impedance, and the game becomes, "How fast can you charge the input capacitor through the source impedance of your circuit?" That's also the main reason for 10X probes.... it's nice to get that high input resistance, but getting the low capacitance that comes with it is even more important.

Another limit is the "purity" of the components, i.e., whether the resistors are a little bit inductive, etc.

Date: Thu, 29 Oct 1998 17:16:11 -0800
From: dave_epps@juno.com
To: qrp-l@lehigh.edu
Subject: [23544] Ultra-Lite Ant. "KNOT"
Message-ID: <19981029.171611.6678.11.dave_epps@juno.com>

I think I have "blindly stumbled" onto a portable antenna that is a winner.

You guessed it. Made from ribbon cable.

I cut a 40 mtr halfwave length using 8 conductors. Tied a knot in the center and split one half giving 2 quarter wave lengths. No center insulator

or soldered joints. Absolutely waterproof. I tied a loop in each end for the

support line which is fishing line. I soldered the 4 wires together on each

end of the dipole giving a single conductor. Later I plan to cut some of the

elements for a multi-band dipole.

The other half (8 conductors) I separated at the end into 2 conductors (4 each)

and used that as a balanced feedline.

On the mfj ant. analyzer it tuned flat via the zm-2. On air the led on the zm-2

completely extinguished. Made 4 contacts right away with good sig reports.

dave ab5pc fresno, ca.

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 19:22:06 -0600
From: bchurch@megavision.com
To: qrp-1@Lehigh.edu
Subject: [23545] OHR rig sale
Message-ID: <363914BE.407F@megavision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

excess to my needs and activity at current time -
- one Oak Hills Research QRP Classic transceiver - 40 & 20 mtr, 0-5
watts out- vfo, built in keyer - vy good condx
built by ac4hf, Jeff, for 73 Magazine review
one WM1 - OHR qrp wattmeter, built by me, some bubbling off of label
around pwr level switch, works fine

as a unit, \$150 plus shipping
Dave K8BBM QCWA, MI QRP 124, QRP ARCI 6354, G QRP 5101, FISTS 4293
e mail me or (402) 563-3014

Date: Thu, 29 Oct 1998 20:20:48 -0500
From: Bill Nicolson <n2wf@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [23546] Forsale JPS NIR-12 DSP Unit
Message-ID: <36391470.DA48DEEE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi I have for sale a JPS NIR-12 in perfect shape.
Includes manual, box and accessories
looking for \$215 including shipping to CUS.
please E-Mail n2wf@erols.com or call
908-722-6000 x2409 and leave a message
72 de Bill N2WF

--
* William F. Nicolson Jr. * N2WF * FN20 * Colonia, NJ **
* OHR-400 * NorCal 40A * 38 Special * SW-40 * OHR WM-2 *
* NorCal Paddles * OHR DD-1 * LDG QRP Tuner * OHR SCAF *

* QRP-L #955 * FISTS #2016 * NJQRP #68 * NorCal #2098 **
* 732-381-1386h * 732-722-6000 x2409w * n2wf@erols.com *

Date: Thu, 29 Oct 1998 19:56:28 -0600 (CST)
From: ac5ez@webtv.net (Larry B)
To: qrp-l@Lehigh.EDU
Subject: [23547] wire cutters
Message-ID: <7177-36391CCC-9761@mailtod-121.bryant.webtv.net>
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

The following mailings will be made Friday via us mail.

Ab7yt
wa7ssa
nn6cw
k6hcj
ak7y
de k1zw

Date: Fri, 30 Oct 1998 02:14:58 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
To: qrp-l@lehigh.edu
Subject: [23548] Fox: When Ron says QSY...
Message-ID: <3.0.16.19981030020947.08bfaefe@som-uky.campuscw.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I felt like Ron was ready to move or something at 0200.
Anyway, the ssb qrm got nasty here, and sure enough
"qsy 38" comes the call.
Got him at 0202. It was ESP copy here, Ron. When does it
get dark over there? Thanks for the NV fox.

Lesson learned... be ready to qsy *fast*. First one there
gets the clear frequency.

woof,
Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campuscw.net>

The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Thu, 29 Oct 1998 21:05:56 -0500
From: w4bws@juno.com (Donald E Sanders)
To: ab7ru@yahoo.com
Cc: qrp-1@Lehigh.EDU
Subject: [23549] Re: Dashes on right paddle or left?
Message-ID: <19981029.213215.10102.2.W4BWS@juno.com>

The instructions that come with the Bencher paddle states that is the conventional hookup-I guess that assumes your right handed.
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Thu, 29 Oct 1998 04:51:35 -0800 (PST) Mike Parkes <ab7ru@yahoo.com> writes:
>Is the "conventional" orientation for paddles to have the dashes on
>the right paddle and dots on left or vice versa? I use mine the former
>way but am curious if thats how others are setting their's up...
>==
>Michael Parkes AB7RU
>
>
>
>
>-----
>DO YOU YAHOO!?
>Get your free @yahoo.com address at <http://mail.yahoo.com>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 20:50:32 -0500
From: w4bws@juno.com (Donald E Sanders)
To: w7ls@blarg.net
Cc: qrp-1@Lehigh.EDU

Subject: [23550] Re: Zip-Cord antenna/Ultra-Light Antenna
Message-ID: <19981029.213215.10102.1.W4BWS@juno.com>

Even at 25 feet this is around 1/2 db loss and "that ain't bad".

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937

407-779-0222 Fax 407-779-0830

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

On Wed, 28 Oct 1998 16:33:46 -0800 W7LS <w7ls@blarg.net> writes:

>Au-Contraire (at least I think). 2 dB for 100 feet? I don't consider

>that bad, even at 10 MHz, if you assume that the feedline in a field

>portable operation is only 10 feet long or so and the freq is 7 or even
3.5

>MHz.

>Sounds pretty good to me, actually.

> 73 de Jim, W7LS

>

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 21:32:05 -0500

From: w4bws@juno.com (Donald E Sanders)

To: mjmanship@iquest.net

Cc: qrp-1@Lehigh.EDU

Subject: [23551] Re: Copy CW Challenge

Message-ID: <19981029.213215.10102.4.W4BWS@juno.com>

Probably ElPaso style Chili.

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937

407-779-0222 Fax 407-779-0830

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

On Thu, 29 Oct 1998 16:44:14 -0500 Mike Manship <mjmanship@iquest.net>
writes:

>>Ref: 73 mag. Oct. '98 pg. 4.

>>W7JWJ says that a poor diet is "a big part of the problem" in learning

>the code. (That's a new one)

>> W7JWJ has certificate for copying 79 wpm.
>> dave ab5pc fresno, ca.
>
>Which foods does he suggest that one ingest in order to QRQ ?
>
>73 de Mike W90J
>
>

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 19:54:02 -0700
From: Vince Kumagai <sonofullr@idcomm.com>
To: qrp-1@Lehigh.EDU
Subject: [23552] Re: Got my 1st Fox - What fun !
Message-ID: <36392A4A.9C1509@idcomm.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well I got my 1st fox. Been trying the last couple of weeks. The wife had to use a crowbar to get the smile off my face. Great signal here in Denver. I could hear him way over the pile up. What fun !!

Vince Kumagai
KB0YTK
CQC 432 QRPL 1283

Date: Thu, 29 Oct 1998 22:03:28 -0500
From: "Jim Kortge, K8IQY" <jokortge@cwix.com>
To: "Kevin F. Glynn" <kfglynn@prodigy.net>
Cc: qrp-1@lehigh.edu

Subject: [23553] Re: 2N2/40 FOX Contact
Message-ID: <3.0.1.32.19981029220328.0070b7ec@mail49.mci2000.com>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

At 01:10 PM 10/29/98 -0500, Kevin Glynn wrote:

>Hi Jim,

Greetings Kevin. Thanks for doing a great job as the
FOX! It was terrific working you with the 2N2/40.

>

>Do you have any more info you can share about the rig, or is something
>available on the web? This sounds PERFECT, just the ticket to get some
>guys involved at a very reasonable price and something we can all do as a
>club project locally maybe. I did this with the Pixie II project, and also
>passed it along with the NJ-QRP club last year.

Here is the plan. A rather full featured article will appear in the
Winter issue of QRPP, probably in December I'd guess, but that
is Doug Hendrick's call. After that article gets published, I,
and others, plan on doing an Elmer 300 project, which will be to
go through the design and build of the 2N2/40 rig on the
internet. You also may have seen a reference about the
"Manhattan Project", that's the Elmer 300 course. I am not
planning on putting all of the SPICE modelling into the QRPP
article, as it will just get too long. After the Elmer 300
project is done, I and Paul Harden, NA5N are planning to
publish all of the information in a stand-alone book, so that
all the information is collected together in one place. That
book probably won't be available until sometime in the summer.

Currently, I'm finishing the article, and building a second
rig off the layouts and schematics for the article, just
to catch any errors. Fortunately, I've only found a few.
The transmit side of the rig is finished, and I just build
the VFO today. That's working to specs also, so I'm
fairly certain to receiver will go together and work as
designed. November 15th is the deadline for finishing
everything and getting it to Doug, so I'm going fast!

The whole idea behind the QRPP article and the Manhattan Project
is to let everybody that is interested build a complete
transceiver, without a PC board. A truly scratch built
rig. I think with the information being provided, anyone
who wants to spend some time can build it, and it will
work!

Hope this is the information that you were after. Thanks
for your interest in the 2N2/40, and congratulations again

on doing a splendid job as the FOX.

72 and kind regards.....Jim, K8IQY

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@cwix.com	__o	H.F. bicycle mobile
Fenton, MI	_'\<,	Mizuho 17/40 SSB
...	(*)/(*)	...

Date: Thu, 29 Oct 1998 22:04:01 EST
From: N9DD@aol.com
To: QRP-L@lehigh.edu
Subject: [23554] FOX: Got Him!
Message-ID: <221d3767.36392ca1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Wow... Ron was really tooling along there. My record 90 QSOs as a fox might be in jeopardy...

I got home at 0225 from a couple hours of one of my favorite pastimes -- playing pool. I said hello to the kids, rushed down to the hamshack, took a quick look around 7.040, and found Ron knocking out QSOs at a killer pace. It took several calls, but I managed to bag him after QSYing a bit. Ron: you had me as N8DD at first. Did you get the correction?

Us DD's have to be careful - there are 3 active QRPers with 'DD calls, K8DD - Hank in MI, N4DD, Dennis in TN, and me N9DD, Tom in IN. Hank and I seem to QRM each other for the same contest QSO regularly.

Good Job Ron. I'll be anxious to see your Fox Log.

Tom N9DD
South Bend, IN

p.s. I won at pool -- 22 games to 7 of 9-ball. Great night!

Date: Fri, 30 Oct 1998 03:05:14 GMT

From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23555] Re: Fox-KU7Y-0100z Tonight!
Message-ID: <36392c5e.17942941@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

On Thu, 29 Oct 1998 15:40:22 -0800 (PST), Monte Stark <ku7y@dri.edu> =
wrote:

>Hope this means 40m will be good.....

The sigs improved just as 0300 rolled around ... heard the sign off, but
nothing else on the DCTL 40 meter dB-catcher. Went from s-0 at 0259 to =
s-6 or
7 at 0302. Now at 0304, still good strong signal ...

Heard a few of the pileup.

--

72 es 73 de Marty, KM7W

Memphis, Tennessee <http://home.earthlink.net/~mwattcpa>
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM55

Date: Thu, 29 Oct 1998 22:16:06 -0500 (EST)
From: Thom <thom@li.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [23556] Fox Sked
Message-ID: <Pine.SUN.3.95.981029221456.3361A-100000@linet01>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang,

Does anyone have a copy of the fox schedule they could send me? I'm www
challenged (i.e. e-mail only)

Thanks

Tom

WB2QDG

thom@li.net

Date: Thu, 29 Oct 1998 21:16:41 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: ku7y@dri.edu, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23557] Re: Fox-KU7Y-0100z Tonight!
Message-ID: <3.0.1.32.19981029211641.0068ecb4@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Ron,

Not quiet here in East Texas -- again. Lots of clouds, high QRN. I could hear you in there early but not good enough for solid copy. It will get cold here soon I hope, I hope, I hope...

72/73, Chuck, W5USJ, Point, TX EM22cv -- ARCI #5422 QRP-L #1306

Date: Thu, 29 Oct 1998 21:28:23 -0600
From: "Randy Moore" <wr.moore@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23558] FS: AT-11 (QRO version)
Message-ID: <000001be03b5\$59a804e0\$bb26430c@wrmoorerpc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Still have the LDG AT-11 for sale - price reduced to \$160.

An unbuilt AT-11 (QRO) automatic antenna tuner kit, including enclosure, with upgrade parts for the latest version. I've not opened the parts bags, so its just like LDG delivered it to me. I also have the QRP version (I'm keeping it), and I assume the QRO version (5-100w) works just as well).

72,
Randy, KS4L

PS Bagged KU7Y tonight after much hunting. Thanks Ron!

Date: Thu, 29 Oct 1998 22:31:35 -0500
From: Tom Palmer <n1tp@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>

Subject: [23559] EXCELLENCE OF THE FOXII
Message-ID: <36393317.CCF93FE0@worldnet.att.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I think all HOUNDS will agree that we are indeed fortunate to have such a fine group of FOXII! This evening Ron kept the ball rolling with another super effort! The fine quality of the FOXII is becoming more and more apparent with each hunt. 73 to all. Tom, N1TP, Naples, FL.

Date: Thu, 29 Oct 1998 19:33:16 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: jeff@san-dc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23560] Re: FOX QRM?
Message-ID: <36393337C.5EA79336@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jeff Johnson wrote:

>
> The
> thought of intentional interference because we were QRP had crossed my
> mind.

Jeff, I think it was probably UNintentional interference because you were QRP. In other words, maybe the guy heard you weakly and figured 'if he's that weak, I must be weak there too'. Or maybe he didn't hear you. I have *very* rarely heard intentional QRM on CW (except to DXpeditions) in my 42 years of hamming. I don't think most QRO stations resent QRP'ers, either. Why on earth should they?

Vic, K2VCO
Fresno CA

Date: Thu, 29 Oct 1998 21:32:05 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: Denton@Bramwell.Org

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23561] Re: how to measure SSB power
Message-ID: <36393335.C8FC2D45@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Denton Bramwell W7DB wrote:

>
> >>just started back on SSB but both my meters
> measure average power ...so how do i get a fairly accurate read
> on my power???????.....<<<
>
> option 1: Tune on CW, and measure power there. A normally operating SSB
> transmitter will generate peaks equal to the power of the CW.
>
> option 2: Convert your SWR meter to a "peak hold" type. Circuits for
> this are abundant and simple, and change only the metering part of the
> circuit.

I use a peak reading type so I forget the exact conversions but they are
in handbook or any good source book.

I believe that peak envelope power is $1.414 \times$ the average power and that
average power is roughly $.7 \times$ key down power. If that is correct and I
believe it is, then PEP is greater than key down cw power.

73 de Dave, N0IT

Date: Thu, 29 Oct 1998 22:33:42 EST
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [23562] NABBED FOX AND POACHER
Message-ID: <df7bd96.36393396@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Besides getting "Ronnie Fox" I spent most of the nite trying to copy the
QRMing stations. Finally got two calls of folks who seemed to enjoy following
the group around. I plan to keep a list for the next couple of sessions and if
the same calls keep coming up may send the fella(s) a note.
Alan KB7MBI

Date: Thu, 29 Oct 1998 21:53:01 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-1@lehigh.edu
Subject: [23563] Fox: whoa, whata fox!
Message-ID: <3639381D.D4DED0A5@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well Ron, the pipeline was certainly clear tonight... one shot & you came back. (had the keyer set too slow tho). Happy dance & a cartwheel right out the door of the shack. The xyl said "you get him already"?!! hmmm, it was said with a touch of disappointment too! ;-)

Thanks again, & it really was a 599!

Tim W5FN

Date: Thu, 29 Oct 1998 22:57:18 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Tom Palmer <n1tp@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23564] FOX: EXCELLENCE OF THE FOXII
Message-ID: <Pine.OSF.3.95.981029225256.3451C-1000000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 29 Oct 1998, Tom Palmer wrote:

> I think all HOUNDS will agree that we are indeed fortunate
> to have such a fine group of FOXII! This evening Ron kept
> the ball rolling with another super effort! The fine quality of the
> FOXII is becoming more and more apparent with each
> hunt.

Uhhhh... On behalf of the Foxii selection committee, Gee, thanks Tom!

73! =paul= W8KC
Sellelector of Foxii and ...
Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

ObFoxhunt: Got Ron tonight! Two for Two this week, Woo Woo!

Date: Thu, 29 Oct 1998 23:17:21 -0500
From: wb2vuo@juno.com (W. K. Hibbert)
To: qrp-l@lehigh.edu
Subject: [23565] BCB Harmonics on 2940 KHz?
Message-ID: <19981029.231722.11254.0.wb2vuo@juno.com>

Not QRP, ok, but I wish to tap into the bottomless well of knowledge on the QRP-L...

I have, for at least 3 weeks, been hearing an AM station on 2940 KHz, signing "KGOK/KVLH, Country Hits Back-to-Back"...

I have a 1988 BCB listing, the North American Radio/TV book that Tab used to publish, and can't find these stations listed. Tonite, the ID at 0400Z added a frequency, 97.7 MHz FM, but didn't list a corresponding AM frequency. This would be the 2nd harmonic of 1470 KHz, but nothing on that frequency with either call in 1988...

Are either of these calls familiar to anyone on the List? Or is there a site that one can look up BCB calls on-line?

Inquiring minds, and all that...

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 23:44:07 EST
From: DYARNES@aol.com
To: sjolin@swbell.net, qrp-l@lehigh.edu
Subject: [23566] Re: how to measure SSB power

Message-ID: <ea4d195.36394417@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 10/30/98 3:42:38 AM !!!First Boot!!!, sjolin@swbell.net writes:

<< I believe that peak envelope power is 1.414 x the average power and that average power is roughly .7 x key down power. If that is correct and I believe it is, then PEP is greater than key down cw power. >>

Let's see---

Assume 10 watts key down
 $10 \times .7 = 7 \text{ watts} = \text{Average Power}$
 $7 \text{ watts} \times 1.414 = 9.898 \text{ watts PEP}$

Looks to me like PEP and key down are just about the same, and PEP is NOT more than key down. What did I do wrong?

Dave W7AQK

Date: Thu, 29 Oct 1998 21:46:53 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@lehigh.edu
Subject: [23567] ZOMBIE SHUFFLE UPDATE
Message-ID: <Pine.SOL.3.91.981029214446.19482D-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dear fellow Zombies of the high and worthless rite:

I am absolutely astounded by the email and enthusiasm over the Zombie Shuffle. I'll be the first to admit this mini-contest has absolutely no point whatsoever, but it's sure has appealed to many. I'll be working the bands as long as I can to enjoy the fun too!

I have also received some constructive criticism on a couple of points regarding the contest (and well taken) which I'll clarify here. This is my first shot at sponsoring such an event and didn't consider a few

things.

LOGS: I stated logs need not be submitted, but many pointed out that this is part of the discipline of a contest, it keeps everyone honest, and since this may be the first contest for many new hams/QRPers, it is good training for a more serious contest (which would probably include about ANYTHING!). So please submit at least a list of the Zombies you worked. All I really need is the first name and Zombie number received to verify proper contact (remember, I have "the list") and scoring. Of course you can submit your complete logs if you'd like. Email and mail address on official rules (to be reposted shortly).

BANDS: You can use ANY legal non-WARC band you wish. 40M and 80M are the recommended ones, simply because they are standard "evening bands." 6M can be used by Technician class hams as well.

NOVICES: It is recommended you call CQ or listen for a CQ on the hour and half-hour. Many of us will try to work the novice bands by calling or listening at these times around 7.106 MHz.

ZOMBIE NUMBERS: If you received a Zombie number by email, that is your OFFICIAL number for the Shuffle, AND good for the rest of your life. (I got asked that a dozen times).

CALLING CQ: There is no official "how do I call CQ" format, as per the QRP-L thread. Although, must admit, I do kinda like CQ B00 myself! Good job whoever came up with that one.

I'll be reposting the official rules again shortly, AND a list of the bonus point stations (the Grand Zombies and our official "Elvis" station).

IF THIS IS YOUR FIRST CONTEST ...

I have received emails from many who have never participated in a contest before and wanted to know how it's done. Here's a quick guide-line.

1. First, most QRP contests are NOT like Field Day. They are a much slower paced, informal affair compared to the big contests. So don't let the fury of the big ones frighten you from participating.
2. Listen for activity around the QRP calling frequencies. It won't take long to recognize a station participating in the contest due to the short calls, CQ TEST (or CQ B00), etc., and the "QSO" itself is just the short exchange of RST, State, Name and Zombie number.

EXAMPLE: UR 559 NM PAUL NR 004 QSL?

3. When you hear a station calling CQ TEST, just send your call once or twice. He will come back with the call he heard the best. If

it's not you, wait until he's done with that station, he will then generally call QRZ DE NA5N (which means "who is next"), or CQ again, then send your call once or twice again. Sometimes it takes several turns for him to hear you.

4. If you do not copy everything in his exchange, don't be afraid to ask for a repeat or what you missed. For example, if you got everything but the Zombie number, simply send "NR?" and he/she will repeat the number.
5. If the station sends you QSL? ... he's simply asking you if you got everything (he's not asking you to literally send a QSL).
6. If the station you want to work is sending a bit too fast for you, listen to him a time or two to copy his exchange, then call him. Call him at YOUR comfortable code speed. Most ops will slow down to match your speed. If not, don't be afraid to send PSE QRS (please slow down).
7. So just tune around, listen a bit to figure out what is going on, then jump in and try it yourself. It's fun, and it's also great to actually work the fellas on the air you've seen on QRP-L. It's how we get to know each other. And you might be amazed at how your code speed improves after just a few contacts.

GL (good luck) and have fun,
Paul NA5N
Zombie #004

Date: Thu, 29 Oct 1998 22:54:28 -0600
From: Dave Redfearn <n4elm@texoma.net>
To: qrp-l@lehigh.edu
Subject: [23568] WTB: SST kit or built
Message-ID: <36394684.A13687B9@texoma.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looking for a SST for 20 Meters or maybe 40 meters.

Someone on the list sent a message back about a 40M
built SST but I mistakenly deleted it.

73 - Dave.

=====
Dave Redfearn
Email: n4elm@NOJUNKtexoma.net (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

All opinions are my own, no one else wants them.

Date: Thu, 29 Oct 1998 21:48:50 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@lehigh.edu
Subject: [23569] ZOMBIE BONUS POINT STATIONS
Message-ID: <Pine.SOL.3.91.981029214757.19482E-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

You get 666 extra bonus points for working one of the Grand Zombies,
those with a number between 1-25. So listen for the following Zombies
for the extra points: (listed in no particular order)

Paul NA5N	Jim WA6GER
Doug KI6DS	Roger N7KY
Brian N5ZGT	Joe AB7TT
Jim K8IQY	Tim K5OI
Ron KU7Y	Mike WB6TMH
Bob KI7MN	Darrel WD6BOR
Jerry WA6OWR	Chuck K5FO
Derry VE7QK	George G3GRV

I need 2-3 Grand Zombies on the EAST COAST. Please email me if you're
going to participate in the shuffle and want to be a Grand Zombie.
I'll answer the first 2-3 requests. We don't want to appear to be
neglecting you east coast zombies.

WORKING ELVIS is also worth 666 points. Our OFFICIAL ELVIS is
Dan Presley, N7CQR, who will be sending the name ELVIS in the shuffle.
Listen for him also for the bonus points.

I got an email from a QRPer named Elvis, but lost his call and email
(sorry), so there may be another one lurking around out there.

PRIME NUMBERS: You're just gonna have to figure those out on your

own, unless someone has a list they wish to post.

ZOMBIE NUMBERS: Just for your curiosity ...

Zombies in the 100's ... issued at Ft. Tuthill hamfest and to G-QRP

200-300's ... those issued by mail

400's ... issued at PacifiCon

500's ... issued via email

600's ... are lying through their teeth!

(unless an area code, of course)

72, Paul NA5N

Date: Thu, 29 Oct 1998 21:52:28 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@lehigh.edu
Subject: [23570] OFFICIAL ZOMBIE SHUFFLE RULES (again)
Message-ID: <Pine.SOL.3.91.981029214859.19482F-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

THE QRP-L "ZOMBIE SHUFFLE" (Because Zombies don't SPRINT)

*** CORRECTED VERSION *****

See minor changes under BANDS and SUBMITTING LOGS

FRIDAY NITE -- OCTOBER 30, 1998 in US/VE
(That's Halloween, Oct. 31 UTC)

THE ZOMBIE SHUFFLE will be a short informal QRP-L contest on HALLOWEEN EVE, UTC ... that's friday night, October 30th on the US/VE side of the planet (so it doesn't interfere with the real Halloween). A friday night special of sorts. The idea is to go "trick or treating" on the air and have FUN.

TIME: Any 3-hour period you choose from local sundown to midnight on Friday, October 30th, 1998 ... OR ... you can split it into two sessions if interruptions are unavoidable. I.e., get on the air!

BANDS: 40M and 80M are recommended, although any band can be used, including 6M for those so interested. We're easy!

NOVICES/TECH+: If you wish to help out our novice/tech+ friends, it is recommended you call around 7.106 on the hour/half-hour.

EXCHANGE: RST, SPC, Name and Zombie number
Where, SPC is your US State/VE Province or Country

NOTE: Use your telephone AREA CODE if you don't have a Zombie number.

SCORE is the sum of Zombie numbers/Area Codes worked, plus bonus points, times your multiplier.

NOTE: YL's get to multiply by TWO.

You can work the same Zombie twice, providing at least an hour has passed. (I.e., make sure he's still alive!)

OFFICIAL ZOMBIE SHUFFLE SCORE SHEET

- 1) _____ Number of stations worked (not really used for anything!)
- 2) _____ Sum of Zombie numbers (add up ALL Zombie numbers worked)
ADD CAREFULLY. This could be a big number.

BONUS POINTS:

- 3) _____ Add 666 points if you're also a warewolf
- 4) _____ Add 666 points if you worked more than 13 stations
- 5) _____ Add 666 points if you worked 3 or more prime numbers
- 6) _____ Add 666 points for each YL/witchesses you worked
- 7) _____ Add 666 points if you worked an Elvis
- 8) _____ Add 666 points for each Grand Zombie worked (Zombie #001-025)
- 9) _____ Add 666 points if at least one QSO was on 80M
- 10) _____ >Add up lines 2 through 9. This is your adjusted gross score.
>Look up your tax on page 38 and enter on your W-2 line 17 :-)

MULTIPLIERS:

- 11) _____ Multiply line 10 by "pi" (3.14) if you're a Zombie (an OM)
- 12) _____ Multiply line 10 by "2-pi" (6.28) if you're a witchess (a YL)
NOTE: You can use any resolution of pi you wish.
- 13) _____ THIS IS YOUR TOTAL SCORE. (Line 10 times proper multiplier)
(Took some work to get this to end on line 13!)

NAME: _____ CALL: _____ ZOMBIE # _____

QTH:

SUBMITTING LOGS: Submit a list of Zombies worked by first name and Zombie number and above SCORE SHEET (or equivalent) via email or regular mail. Submitting complete logs is not required.

DEADLINE for receiving entries is December 1, 1998

SUBMIT TO: Paul Harden, NA5N
P.O. Box 757
Socorro, New Mexico 87801

OR TO: NA5N@Rt66.com
(Please don't use my work email for logs - tn timer).

CERTIFICATES: Some goulish certificate will be prepared for all entrants wishing one. Send SASE to mail address above.

AWARDS: We have several prizes lined up, and several QRP-Lers have been kind enough to make a few donations (tnx), ranging from an inflatable front-yard gravestone to several Zombie theme VCR tapes. Zombie Shuffle results, prizes and the donors will be posted to QRP-L around Dec. 1st.

WE NEED WITCHESSES!!! Halloween and Zombies are no fun without some witchesses. So come on you YL's ... here's your big chance to score big (OK, maybe a poor choice of words). Send "YL" or "witchess" or whatever before your name so we can get the points, and you YL's get to multiply your score by two (2-pi vs. pi).

This is a "QRP-L" contest thingie, strictly for fun, no trips to Hawaii or anything. Yes, you can use your 100 ft. towers, 4-element beams, from the comfort of your domicile, AC power, state-borders, maritime mobile, WHATEVER ... as long as output power is 5W or less. And yes, if sufficient activity, this will be an annual event.

72, Paul NA5N
Zombie #004

DISCLAIMER: The Zombie Shuffle was invented at the Ft. Tuthill Hamfest.

Date: Thu, 29 Oct 1998 23:02:46 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: wb2vuo@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23571] Re: BCB Harmonics on 2940 KHz?
Message-ID: <36394876.D491117D@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Adds new meaning to the Long Delayed Echo mystery, eh?

72/73, George

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ARS 10-X 33.2 N 96.6 W EM13RE

Date: Thu, 29 Oct 1998 22:13:56 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: pharden@aoc.nrao.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23572] Re: ZOMBIE BONUS POINT STATIONS
Message-ID: <3638E8A4.89020CE1@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If anyone listens for me for Grand Zombie Bonus Points, the call is N7KT
and not "N7KY".

Should be on late, like 0300Z (8 p.m. MST)

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Fri, 30 Oct 1998 00:15:56 EST
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, nwq-l@scn.org
Subject: [23573] SHUNT MATCHING
Message-ID: <404d21fe.36394b8c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I am a open feed ham but have the occasion to use coax for feeding some verticals. I noted in a few articles the use of shunt coils for getting a 50 ohm match. My project is to feed a pair of phased verticals (1/4 wave spacing and 1/4 wave out of phase)

QUESTION: Is the shunt coil a good method for matching or is it generally not necessary?

(For those not familiar with this. the base of the vertical is connected to the ground/groundplane via a coil. The coax shield is conneded to the bottom of the coil and the center conductor is moved along the coil (or vise versa) until the SWR is minimal).

Alan KB7MBI

Date: Thu, 29 Oct 1998 23:27:02 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: DYARNES@aol.com
Cc: qrp-1@lehigh.edu
Subject: [23574] Re: how to measure SSB power
Message-ID: <36394E25.7E068C45@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

DYARNES@aol.com wrote:

> Let's see---
>
> Assume 10 watts key down
> $10 \times .7 = 7$ watts = Average Power
> $7\text{watts} \times 1.414 = 9.898$ watts PEP
>
> Looks to me like PEP and key down are just about the same, and PEP is NOT more
> than key down. What did I do wrong?

Dave, it looks like I defined myself into a corner. I should check the handbook before I further embarras myself, however...

Average power = $.7 \times$ peak power
Peak power = $1.4 \times$ average power.

If key down = average power, then 7 watts cw is approximately same as 10 watts PEP, assuming sinewave. I THINK square wave would be higher, still.

Help guys. Its been a long time since I looked this up. I dont want to mislead.

73 de Dave, N0IT

Date: Fri, 30 Oct 1998 00:30:09 -0500
From: mike czuhajewski <wa8mcq@erols.com>
To: QRP forum <qrp-1@lehigh.edu>
Cc: Mike Czuhajewski <wa8mcq@erols.com>, Rev George Dobbs
<g3rjv@gqrp.demon.co.uk>, Dick Pascoe <dick@kanga.demon.co.uk>,
Doug Hendricks <ki6ds@dpol.k12.ca.us>, wager@juno.com
Subject: [23575] Late Pacificon comments
Message-ID: <36394EE1.1B03@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I was going to type up a nice, long article on Pacificon when I got back but lots of hours at work and other things have really delayed it. Just to show I haven't forgotten, I'll toss out a couple quick comments for now.

The bottom line is that this is becoming, or has now become, QRP Dayton West! The folks out there on the west coast could really use something like QRP Dayton and FDIW that doesn't require a transcontinental trip (\$\$\$) and this is it. The QRP camaraderie, the speakers, the large room stuffed full of QRPers in the evening, the building contest, the whole QRP thing, is just like the QRP Dayton experience. And the associated convention and tailgating are much smaller than Dayton (by a factor of 20 or more), so it's much easier to concentrate on the QRP part--not as many distractions. I didn't find myself wandering around like a zombie for several days like I do at Dayton (although I did wear my NorCal Zombie badge all the time!). Doug Hendricks, Jim Cates, Paul Harden and the rest of the crew put on a first class QRP show.

Although the associated convention and tailgating were vastly smaller than Dayton, there really wasn't that much difference in the QRP crowds. Doug told me how many bodies he promised the Pacificon committee that he could produce, and he more than delivered. Tons of QRPers.

It was encouraging to see such a turn-out for the Friday no-host dinner

down the block at Tony Roma's. I was a member of the Tony Roma's Outcasts--there was no space left in the back room, which was stuffed with wall to wall QRPers, so 8 of us had to sit out with the general public in the main dining area. (At least we had room to eat without bumping elbows and we could hear each other talk!)

Lots of good talks during the day by a number of well known hams, who NorCal flew in. And the book they gave away (free) to QRPers attending Pacificon had more than just the talks that were presented; lots of good material in it. Doug brought 200 copies and those disappeared early on. He later remarked that he could have used another hundred, and I believe it. That's one of the benefits of the fabulously successful NorCal kit projects. As far as I know, every penny of profit from that gets poured back into QRP in some way--a win/win enterprise.

And best of all, something that Dayton attendees can relate to, the air conditioning in the hotel worked the whole time :-). The first night, KU7Y and I agreed that we'd run it full blast all night just as a matter of principle, even though we almost froze to death.

And just like Dayton, I was quite glad that I wasn't one of the judges for the building contest! Lots of goodies and a very tough choice for them. I made the comment to Chuck Adams that I was glad it was him and not me, and he threatened to make me a judge at some future building contest.

And also just like Dayton, there were a number of people who I saw but never got the chance to talk to. But it was good meeting a lot of the west coast QRPers who I read on qrp-l all the time.

We didn't feel the need to fly the QRP ARCI banner that I brought along just in case, but Monte and I did bring 50 or 60 copies of the October QRP Quarterly down to the building contest and they were quickly snapped up. I don't know how many were taken as samples and how many by people who still hadn't received their subscription copies :-). The QRP ARCI also donated a Small Wonder Labs rig as a prize.

I finally got to meet Mrs. Dobbs, who accompanied G3RJV (possibly for the first time to a QRP gathering in the States). It was just a 30 second encounter in the hallway on the last day, but at least I was properly prepared--I had a loaded box of Altoids (containing mints, not radios!) in my hands and I observed proper QRP etiquette and offered them some :-).

BTW, there was a dealer of surplus microwave parts in the tailgating area who was selling what he claimed were matched sets of HP5082-2800 hot carrier diodes at a dollar per set. (I bought 5.) The HP number on the bags was 5082-9496 and does not appear on the HP listings. (The

bags were plainly marked as being a set of 4, with a warning not to separate them.) I checked with HP and they told me that number was a special order from a customer, was obsoleted in 1994 and that no further data was available. The guy selling them did say that he'd successfully built double balanced mixers with them, though.

I took some pictures at Pacificon, and a number turned out well enough to post somewhere. After I get them converted into a different format than they're scanned with now, I'll put them up somewhere.

--

73 and Queue Our Pea de WA8MCQ wa8mcq@erols.com

--

73 and Queue Our Pea de WA8MCQ wa8mcq@erols.com

Date: Thu, 29 Oct 1998 23:28:27 -0600
From: "Rud Merriam" <rmerriam@csi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [23576] Re: FOX QRM?
Message-ID: <00a801be03c6\$98e36580\$296cafce@sisyphus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Actually, the FCC is starting to take action again. Amateur enforcement is now with the enforcement branch of the FCC instead of the amateur service branch. Sorry, don't know the correct names for the branches off the top of my head. The ARRL site should have the announcement about the transfer since it was earlier this year.

Rud Merriam KD5DTV
rmerriam@csi.com

-----Original Message-----

From: Steve Sorrell <ap036@detroit.freenet.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, October 29, 1998 9:34 AM
Subject: Re: FOX QRM?

>Hi Folks:

>

>There has been quite a few threads concerning Fox qrm. The thing qrmers

are
>looking for is ATTENTION. These folks are bored, so they occupy
themselves
>by making others miserable. The only way to treat this is to completely
>IGNORE them. This deprives them of the one thing they are seeking,
>ATTENTION. They obviously subscribe to this list because they know when
and
>where the fox is at. Thus, by complaining here, you are giving them what
>they want. The best way to handle them is to say nothing and act as though
>they don't exist. They will soon get bored because they aren't getting the
>attention they want. These folks have plagued dxpeditions and dxers for
>years and the more you complain the more they interfere. They are not
>deterred by comments about triangulation and such. They don't worry about
>the FCC because the FCC is busy with more important matters.
>
>So, please, just ignore them and once they are bored through the lack of
>attention, they'll go bother someone else. But, complaining here just
>encourages them to keep it up.
>
>I'm not trying to be a list policeman and obviously you can write what you
>want to the list. Its just that some of us has had experience with these
>people in the past.
>
>JM2CW
>
>de Steve, W8SFF
>
>

Date: Fri, 30 Oct 1998 00:32:40 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [23577] Re. BCB harmonics
Message-ID: <3.0.32.19981030003237.0068a4bc@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

An old Whites Radio Log lists KVLH at 1470, Pauls Valley, Ok
73 Pete W4VCT

Date: Thu, 29 Oct 1998 22:03:27 -0800

From: dave_epps@juno.com
To: qrp-l@lehigh.edu
Subject: [23578] Dreaded ZBM-2
Message-ID: <19981029.220328.6678.13.dave_epps@juno.com>

So far have had 2 responses that knew what the Z sign ZBM-2 meant.
I will post the answer in a day or so. Just in case anyone might get a
ZBM-2 and not know what it means.
dave ab5pc fresno, ca.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 29 Oct 1998 22:10:07 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [23579] Fox log for KU7Y
Message-ID: <Pine.SOL.3.96.981029215944.29915B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

First let me say what a great group of hounds you all
were tonight!

I must apologize for not moving in nice steps like I
had planned to do. Too much qrm everyplace! So I just
jumped back and forth through the pile up.

At times I had the 125 hz filter on and at other times
I had either the 250 or 500 hz in.

I didn't hear any tailenders. But that's another subject
and another lesson....

My speed was 25 wpm with the exchange sent at about 35 wpm.
NO ONE asked me to slow down. I did slow a couple of times
when I thought there was a problem with qrm but otherwise
I just let it fly.

There were NO dupes! Total QSOs was 101.

I'll take some time tomorrow to post some thoughts about

a few things to try the next time. Always trying to improve the scores, both for the hunters and fox's.

If you all want to know how much you have improved over the years, listen to this....

My first time as a fox I got something like 15 QS0s! My second time I did from KA7T in Idaho and used his 2 ele yagi at 75' and only got 12 QS0s!

The Hounds are the ones who make or break a fox. You all were really great tonight! Pat yourselves on the back!

And I was thrilled to hear Bertie make it! Good Job!

OK, here's the list:

1	W5TFB	Jack	282	TX
2	K1MG	Michael	614	CA
3	K2VCO	Vic	599	CA
4	NQ7X	Floyd	559	AZ
5	N7XJ	BOB	1280	UT
6	WE6W	ED	1068	CA
7	KI0G	Bob	579	CO
8	K5OI	TIM	73	NM
9	AK7Y	GREG	1693	AZ
10	N5TW	TOM	1474	TX
11	KI7MN	Bob	271	AZ
12	VE5RC	BRUCE	886	SK
13	KC5LD	DAN	5W	TX
14	N1FN	MARSSHL	153	CO
15	VE7CQK	BRUCE	20	BC
16	WS7CE	ROY	4W	MT
17	W5SB	BILL	1279	TX
18	W9UQB	Mike	413	AZ
19	AB7MY	Gary	571	SA
20	N7XJW	BERTIE	1259	AZ
21	AF5Z	BOB	984	TX
22	AI4CW	DON	?	AL
23	K5FO	Chuck	1	TX
24	KB0PTE	WAYNE	1058	MO
25	W0RW	Paul	1284	CO
26	WW7Y	Steve	94	UT
27	WJ7H	Wayne	481	UT
28	N4ROA	DAN	970	VA
29	W5HNS	Henry	178	TX

30	VE2KN	WIN	103	QU	
31	W0YSE	NEIL	500MW		UT
32	N0AR SCOTT		1455	MN	
33	AK1P Paul	284		CA	
34	K50N Gary	770		NM	
35	VE6NJK	NILS	1239	AB	
36	KG7PV	Steve	109		OR
37	W0CH DAVE	618		MO	
38	K5ZTY	Bill	473		TX
39	N0UR Jim	799		MN	
40	K8CV WALT	935		MI	
41	N1TP TOM	1317		FL	
42	W7AQK	DavE	187		AZ
43	AB7TT	JOE	191		AZ
44	K5LN BILL	5W		TX	
45	W8SFF	STEVE		1288	MI
46	N5LU BILL	1		OK	
47	WB5QYT	Tom	640		NM
48	WA5WHN	Jay	638		NM
49	W4VC PETE	1721		KY	
50	K5UP Glen	21		OK	
51	KF4AR	DICK	402		SC
52	AB5UA	CLIF	478		OK
53	VE5VA	Pete	46		SK
54	NU4N Dave	1096		KY	
55	W0RSP	ADE	661		SD
56	W8RU Ron	188		MI	
57	K5JHP	BILL	825		TX
58	K10J Oj	732		TX	
59	KA80KH	RICH	933		KY
60	WS4S CONARD		993		TN
61	N7KT Roger		62		AZ
62	WS8D MIKE	1188		MI	
63	W5FN Tim	586		TX	
64	K6VNX	ARLEN		5W	CA
65	W5JAY	JAY	1201		AR
66	NC7X DB	1729		UT	
67	N7RR BRUCE		1688		WA
68	KD7AEE	OG	1796		UT
69	N5JI DICK	1054		TX	
70	N5WL BART	499		OK	
71	KC0EGC	JACK	5W		MO
72	KK4LN	DAN	5W		TX
73	KQ5U TERRY		1604		TX
74	N5JKY	Mike	300		OK
75	WA9PWP	PAUL	1?		WI
76	WA8GHZ	JACK	691		TX
77	KB0YTK	VINCE		1283	CO

78	W4DEC	LARRY	1045	AL
79	N2ZHY	DAVID	2W	NJ
80	VE3JC	John 744	ON	
81	AE2T AL	1664	NY	
82	KI0II	RON	928	CO
83	K7TQ RANDY	102	ID	
84	WW5XX	JIM	5W	TX
85	KG0PP	JIM	5W	CO
86	VE3SP	Ron	464	ON
87	WD8KQY	GARY	446	OH
88	W8KC Paul	59	MI	
89	VE3ELA	KEN	1226	ON
90	N2LO BOB	1719	NJ	
91	N9DD TOM	32	IN	
92	KB7MBI	ALAN	599	WA
93	KG2LO	ROLAND	1445	NJ
94	K2SJB	Dave 757	NY	
95	N3XRV	Chris	655	MD
96	KA1AXY	Peter	260	NJ
97	KL7IXI	MIKE	1186	WA
98	KS4L RANDY	468	AL	
99	KF4KSM	Mac	704	FL
100	WB9LKC	RAY	8	WI
101	AB8DF	ED	1444	MI

I am missing a few numbers. Let me know of any errors.

I thank you all for a great evening,

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
ku7y@sage.dri.edu.....Washoe Lake, Nevada....
QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 30 Oct 1998 10:11:46 +0200
 From: Arjen Raateland <Arjen.Raateland@vyh.fi>
 To: QRP-L <QRP-L@lehigh.edu>
 Subject: [23580] test, ignore
 Message-ID: <363974C2.73D0@vyh.fi>

MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

No mail from QRP-L since yesterday evening.

--

Arjen Raateland
Finnish Environment Institute
SAS Support
phone +358 9 4030 0350

Date: Thu, 29 Oct 1998 10:06:09 +0100
From: Lars Olsson <sm3avq@ebox.tninet.se>
To: qrp-l@Lehigh.EDU
Subject: [23581] CMOS Super Keyer from Idiom Press
Message-ID: <36383001.715@ebox.tninet.se>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello all CW QRPers,
Some of you have been asking for the address to Idiom Press and as far
as I know it still is this:

Idiom Press,
P.O.Box 1025
Geyserville, CA 95441
USA

If someone on the other side of the big water have a new address, please
send it to the reflector.
I can not find Idiom Press on the Internet.
73 de Lars / SM3AVQ

Date: Fri, 30 Oct 1998 10:15:01 +0100
From: Alen Mitrovic <alenm@hermes.si>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23582] new qrp home page
Message-ID: <7519EA69A7D4D111916400A0C955EF618AF0AD@hal9000.hermes.si>
Mime-Version: 1.0
Content-Type: text/plain

New Qrp home page. Still under construction.

<http://www.qsl.net/s53ma/index.html>

72 de Alen / S53MA

Date: Fri, 30 Oct 1998 06:35:38 -0500
From: Rick Sealey <rsealey@InfoAve.Net>
To: qrp-l@lehigh.edu
Subject: [23583] Zombie Shuffle
Message-ID: <1.5.4.32.19981030113538.00d25a78@mail.infoave.net>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

I personally plan to implement a "dead" key. (Intermittently, of course.)

Ouch!

Rick - W4SEA
Zombie #253

Date: Fri, 30 Oct 1998 07:08:54 -0500
From: mikemo@ibm.net
To: qrp <qrp-l@Lehigh.EDU>
Subject: [23584] W9GR DSP, 2 boards left
Message-ID: <3639AC56.3B22@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have two boards left for anyone who wants to experiment with DSP. They are the early W9GR DSP boards (board only, not a kit). The cost is \$20 plus \$3 for express mail.

We are looking at making a "development system" with these boards. The original source code has been modified to work on a shareware assembler.

email me direct
72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Fri, 30 Oct 1998 07:16:08 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Mark R Milburn <kq0i@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23585] Re: keyboard cw
Message-ID: <Pine.GS0.3.96.981030070822.22768D-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have built CW keyboards from the days of TTL onward, with the last having FIFO buffers and memory--48 chips--just before folks started programming CPUs to do all that work.

Memory use is optional. I tend to set my memories just before an operating event. I might have CQ [test name] de [call], a second might have a standardized exchange, a third might have acknowledgement and sign-off, and a 4th might have (not really good practice but common in tests) "73--qrz de [call]."

For standard use, I tend to program a slot with my QTH and name, with another slot for conditions needing a double send (rare) for each. A slot can go to the rig/ant description.

In short, anything that you tend to send very often can go into memory for 1-button execution. The goal, however, is never to use these buttons in normal QSOs if there is a more personal way of saying the info. That is, do not let them substitute for really making contact with the operator on the other end whenever possible.

-73-

LB, W4RNL

Date: Fri, 30 Oct 1998 07:38:41 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23586] Re: SHUNT MATCHING
Message-ID: <Pine.GS0.3.96.981030073343.22768F-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>(For those not familiar with this. the base of the vertical is connected to

>the ground/groundplane via a coil. The coax shield is conneded to the bottom
>of the coil and the center conductor is moved along the coil (or vise versa)
>until the SWR is minimal).

The shunt coil, as you describe it is in series with the base of the vertical and acts as a base loading coil. The tap for the coax is simply a convenient matching method.

The technique works, but note that the coil is a load inserted at the high current or max radiation segment of the antenna. Hence, part of the current normally devoted to the radiation field is virtually lost in the tight field of the coil. If these losses are acceptable for other reasons (mechanical feasibility, etc.), then the technique is usable. If the losses are deemed undesirable, then another feeding method should be used.

An alternative is to use an L-network at the antenna base, with the low impedance side toward the antenna. Another alternative is to use low loss parallel feedline to an ATU in the shack. Both methods let the antenna be all antenna. However, there are details of antenna length vs. frequency and physical aspects of the installation that might overrule either idea.

-73-

LB, W4RNL

Date: Fri, 30 Oct 1998 08:08:22 +0000
From: "Bryan Turner" <turnerw@email.uah.edu>
To: qrp-1@Lehigh.EDU
Cc: wb2vuo@juno.com
Subject: [23587] BCB Harmonics on 2940 KHz?
Message-ID: <199810301411.IAA13732@uahis1.uah.edu>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

<http://wmbr.mit.edu/stations/am.html>

This is a good web page to search for broadcast station info. By the way, KVLH is on 1470 kHz at Pauls Valley, OK. Harmonics can be quite common from AM broadcast station. Some BCB DX'ers use harmonics to listen to stations normally not audible due to QRM.

73 Bryan W8LN

Date: Fri, 30 Oct 98 09:23:28 EST
From: jeverhar@cse.l-3com.com
To: turnerw@email.uah.edu
Cc: qrp-1@lehigh.edu
Subject: [23588] Re: BCB Harmonics on 2940 KHz?
Message-ID: <9810301423.AA20330@train11.cse.l-3com.com>

Bryan, you wrote:

> <http://wmbr.mit.edu/stations/am.html>
> This is a good web page to search for broadcast station info. By the
> way, KVLH is on 1470 kHz at Pauls Valley, OK. Harmonics can be quite
> common from AM broadcast station. Some BCB DX'ers use harmonics to
> listen to stations normally not audible due to QRM.
> 73 Bryan W8LN
>

There are also situations where the BCB harmonics are very undesirable (even at legal levels. I live about a mile away from Phila station WIP which runs about 5 kw at 610 KHz. Their third harmonic falls right in the dx window on 160 meters. And no, it's not front end overload. I've looked at the spectrum with some sophisticated spectral monitoring equipment (borrowed from work) specifically intended to measure harmonic and spurious radiation from high power transmitters.

QRP connection - if the BCB station were running QRP, the same harmonic rejection would put the interference down in the noise. ;-)

72/73,

Joe E., N2CX

Date: Fri, 30 Oct 1998 08:41:06 -0600
From: Jim <kj5tf@madisoncounty.net>
To: qrp-1@lehigh.edu
Subject: [23589] Fireball on the air
Message-ID: <3639D002.3864@madisoncounty.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ten mtrs seems pretty good this AM so I'm sitting here calling CQ on

28.332MHz. Some QRM nearby but its worth a try.

Look for me on this freq. mornings around 13:30-15:00Z, and evenings 00:00-01:30Z. This isnt an exact science due to paying attention to the XYL, chores, etc. But I'll do my best.

The rig is the Fireball 10 milliwatt xmtr, and QRP+ rcvr. Antenna is a 2 ele quad at 70'. Let me know where you are right away so I can aim my beam at you from Arkansas.

Thanks, de Jim AR QRP #2 & Fireballer #181

Date: Fri, 30 Oct 1998 8:51 -0600

From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>

To: "ARДУJENSKI" <ARДУJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [23590] RE: SHUNT MATCHING

Message-ID: <F373582A@optelinc.com>

I believe the need (or not) for a coil at the base of your vertical is a function of whether or not the vertical appears to have inductive or capacitive reactance at the operating frequency, Alan.

As a rule of thumb, if the antenna is physically "short" at the operating frequency, a base coil will be needed to bring it to at least near resonance, and you can *then* ground the bottom of the coil (to your groundplane system, for example) and tap the "hot side" of your transmission line up the coil to obtain a 50-ohm (or so) feed point.

L.B., how 'bout YOUR comments for Alan on this subject?

Karl Kanalz - W8TIF
McKinney, Texas

From: ARДУJENSKI

To: Low Power Amateur Radio Discussion

Subject: SHUNT MATCHING

Date: Friday, October 30, 1998 12:15AM

I am a open feed ham but have the occasion to use coax for feeding some verticals. I noted in a few articles the use of shunt coils for getting a 50 ohm match. My project is to feed a pair of phased verticals (1/4 wave spacing and 1/4 wave out of phase)

QUESTION: Is the shunt coil a good method for matching or is it generally

not
necessary?

(For those not familiar with this. the base of the vertical is connected to the ground/groundplane via a coil. The coax shield is conneded to the bottom of the coil and the center conductor is moved along the coil (or vice versa) until the SWR is minimal).

Alan KB7MBI

Date: Fri, 30 Oct 1998 07:43:44 -0700
From: kv7g@juno.com
To: Denton@Bramwell.Org
Cc: qrp-l@Lehigh.EDU
Subject: [23591] Re: how to measure SSB power
Message-ID: <19981030.075647.15598.0.kv7g@juno.com>

Hmmm..where do you find these abundant and simple circuits ?

Bud - KV7G - Yuma, AZ

>option 2: Convert your SWR meter to a "peak hold" type. Circuits for
>this are abundant and simple, and change only the metering part of the
>circuit.
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 30 Oct 1998 10:06:52 -0500 (EST)
From: lujce@Lehigh.EDU
To: qrp-l@lehigh.edu
Cc: tedbeach@doubled.com, wa8mcq@erols.com, Peter_Simpson@ne.3com.com,
VPassione@NA2.US.ML.com
Subject: [23592] QRP-L Web Archive
Message-ID: <199810301506.KAA66224@nss4.cc.Lehigh.EDU>
Content-Type: text

Gang,

Sorry about the problems with the QRP-L Web Archives.

I'll try to get it fixed as soon as I have a spare minute or two :-(

73

Jim N3VXI

Date: Fri, 30 Oct 1998 06:55:07 -0800 (PST)
From: =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@rocketmail.com>
To: qrp-l@Lehigh.EDU
Subject: [23593] listserv.lehigh.edu...
Message-ID: <19981030145507.25860.rocketmail@web1.rocketmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Anyone know who admin's the following archive...?

<http://listserv.lehigh.edu/lists/Archives/qrp-l/>

Is that yours Jim? I've noticed lately that almost all the links referenced within that archive contain multiple (2 to 3) postings instead of just the one in the subject line. Kinda like mini-digests.

Perhaps corrupt/unknown/new-format mail headers are preventing proper message parsing. I donno. This list-server stuff is all smoke-n-mirrors to me.

Just thought I'd mention it.

Have a great weekend everyone! 72/73!

-Dale

P.S. Starting on my OHR-500 this evening. YeeHaa!

=====
Dale Anderson In the Mt Washington Valley
KB0VCC Conway, New Hampshire
QRP-L #91 / CQC #251 Grid Sq: FN43KX
ARS #234 / FISTS #3172 <http://www.qsl.net/kb0vcc>
=====

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Fri, 30 Oct 1998 08:12:12 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Roger Hightower <n7kt@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23594] Re: ZOMBIE BONUS POINT STATIONS
Message-ID: <Pine.SOL.3.91.981030080847.4409A@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 29 Oct 1998, Roger Hightower wrote:

> If anyone listens for me for Grand Zombie Bonus Points, the call is N7KT
> and not "N7KY".
> --
> 72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Sorry about the typo, Roger!

Paul NA5M :-)

Date: Fri, 30 Oct 1998 09:02:17 -0700
From: Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
To: qrp1 <qrp-l@Lehigh.EDU>, jlevro@mediaone.net
Subject: [23595] Re: Tayloe Mixer
Message-ID: <3639E309.D213289B@email.mot.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Date: Thu, 29 Oct 1998 14:05:00 -0500
From: John Levreault <jlevro@mediaone.net>
To: kd1jv@moose.ncia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23496] Re: Tayloe Mixer
Message-ID: <3638BC5C.E48A0F17@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

>Steven Weber wrote:

>> I also got in the parts I need to build an official "Taylor Mixer". Yikes,
>> another tiny SMT chip with 26 mill lead spacing to try and make a board
>> for, what fun :-)

>>

>> I splurged and bought a pair of Burr-Brown, low noise, low distortion
>> Instrument amps for the input amps from the phase caps, and a couple of low
>> noise LM387's for the phase shifter circuit. Might as well do this right....

>Regarding the R2 phase shifter, it's my belief that the noise properties are
>limited more by the high resistor/low capacitor values than the noise properties
>of the opamps. For example, a .001uF cap is about 200Kohms reactive at 800Hz.
>Wouldn't this give a high equivalent noise voltage?

>Is this why KK7B needs 40dB of gain between the mixer/diplexer and the phase
>shifter, to overcome the poor noise properties of the phase shifter? With this
>much gain prior to the sharp audio filters, it's possible to overload the
>post-mixer amp. By going to a lower-Z phase shifter and lower gain in the
>post-amp, the dynamic range of this receiver might improve, not that's it's
>that bad to start with. I've seen a couple of articles where the noise figure
>of this receiver is improved by increasing the gain in the post-amp.
>Doesn't this further imply poor noise performance in the phase shifter?

>Or maybe not. Comments?

>73 de nb1i

>John

I cannot comment on the noise vs gain of the transistor preamps because I used op-amps. Some people suggested the use of an instrumentation type op-amp because of their unique properties of very high input impedances presented to the source being amplified. An instrumentation amplifier is basically three op-amps combined internally into a balanced, high impedance configuration.

I did some reading and discovered something interesting that is probably generic to all low noise op-amps: The amount of internally generated noise is fixed. However, due to the feedback arrangement that op-amps are operated in, the *higher* the gain, the more the internal noise is swamped out, and the lower the overall effective noise of the amplifier.

Example: Burr-Brown INA103 low noise instrumentation amplifier.

Output noise is spec'ed at $65 \text{ nV/Hz}^{1/2}$.

Gain = 1, Noise = $70 \text{ nV/Hz}^{1/2}$
Gain = 10, Noise = $8 \text{ nV/Hz}^{1/2}$
Gain = 100, Noise = $1.8 \text{ nV/Hz}^{1/2}$
Gain = 500, Noise = $1.2 \text{ nV/Hz}^{1/2}$
Gain = 1000, Noise = $1 \text{ nV/Hz}^{1/2}$

These numbers are my interpretation of what I see on the B_B graphs at 1 KHz and might not be exactly correct. However, it does show the trend. Op-amps, they do need to be run at a relatively high gain in order to get the best noise performance.

Now, I do think the phasing section is noisy. I used ordinary TL072s as my phase delay amplifiers. I figured that I had already set the noise figure with the pre-amp op-amp. That may have been a mistake, but it seems to work well anyway.

I did not use the values that the R2 used in the phase delay section. The RC product sets the phase delay breakpoint frequency in these phasing sections, so I increased C and decreased R for the exact noise fear you expressed. I did not go as far as I would like. I found some 0.01 uf polystyrene caps (a previous Dan's Small Parts special) in my stash and used those. Later I found some compact 0.15 uf caps, but I was reluctant to tear everything apart just to try those.

- Dan Tayloe, N7VE, Phoenix, Az, Az ScQRPions, QRPL #696

Date: Fri, 30 Oct 1998 12:15:12 -0400
From: Reed Park <reedpark@nbnet.nb.ca>
To: jeverhar@cse.1-3com.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23596] Re: BCB Harmonics on 2940 KHz?
Message-ID: <3639E610.BBA3A9E7@nbnet.nb.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
> QRP connection - if the BCB station were running QRP, the same harmonic
> rejection would put the interference down in the noise. ;-)
>
> 72/73,
>
> Joe E., N2CX

If the BCB station were running QRP, the fundamental would also be down in the noise. :-)

Regards
Reed

--

ARROW Research (Avro CF-105)
Reed Park
252 Gauvin Road
Dieppe, New Brunswick
Canada E1A1M1

Amateur Radio VE1NU
WW II, # 19 SET user
I.C.Q. # 4138282

Date: Fri, 30 Oct 1998 11:33:47 -0500
From: "ROBERT EVANS" <revans@sarnoff.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23597] cascaded noise
Message-ID: <3639EA6B.53FA31D4@sarnoff.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

for any two signal processing blocks in cascade.

$g1dB$ = gain of the first stage in dB

$n1dB$ = noise figure of the first stage in dB

$n2dB$ = noise figure of the second stage in dB

now convert dB to a linear factor for each parameter.

$g1 = 10^{(g1dB/10)}$

$n1 = 10^{(n1dB/10)}$

$n2 = 10^{(n2dB/10)}$

now you calculate the cascaded or system noise figure.

$ns = n1 + (n2+1)/g1$

convert this back to dB

$nsdB = 10 \log (ns)$

and nsdB is the cascaded noise figure in dB.

Date: Fri, 30 Oct 1998 09:39:34 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [23598] RE: how to measure SSB power
Message-ID: <5103124387F8D11199DD00A0C925E4B9173C@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain

>>Hmmm..where do you find these abundant and simple circuits ?<<

www.rust.net/~hires is one source. It's just a simple peak hold circuit.

Date: Fri, 30 Oct 1998 8:56:45 PST
From: Roger Traylor <traylor@ECE.ORST.EDU>
To: Dan_Tayloe-P26412@email.mot.com
Cc: qrp-1@lehigh.edu
Subject: [23599] Re: Tayloe Mixer
Message-ID: <199810301656.IAA22343@guille.ECE.ORST.EDU>

Dan and the Tayloe mixer groupies,

I have followed with great interest the discussion on the Tayloe mixer. I have found two other product detector circuits that are also of the sample and hold variety. You may find a look at them interesting.

In SPRAT Nr. 90, the article "An Improved LF Balanced Mixer" by John Hey, G3TDZ, uses a CD4053 switch with two AD712 opamps configured as an instrumentation opamp sum the 180 degree shifted samples. This common way to implement an instrumentation opamp uses one less amplifier. He claims "a remarkably pure output", and "A signal of volts is needed to cause non-linearity." At the end of the article, he states, "More will surely be seen of this circuit." Right he was.

IN QST, November 1992, pg 53, Dr. Rohde describes a sample and hold type product detector that has 25dB more dynamic range than conventional designs. The circuit is most likely of commercial origin (Rohde and Schwarz?). It uses two CD4066 switches plus a series of opamps. The circuit is somewhat unusual. Not sure I understand it yet.

I'm ordering my parts today for my Tayloe mixer.

The only thing I don't like about your mixer is I didn't come up with it first! ;^) Great job!

Roger Traylor
WB4TPW

Date: Fri, 30 Oct 1998 09:00:17 -0800
From: Grant Taylor <k7gt@qsl.net>
To: qrp-l@lehigh.edu
Subject: [23600] Prime numbers
Message-ID: <3639F0A1.79F@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A suitable reference on prime numbers for the math-impaired is the CRC Standard Math Tables. Mine, 27th ed., gives the primes on page 84. Contrary to an opinion stated several weeks ago, 1 is NOT prime. Its a matter of definition, of course.

One can also determine the primeness of a given number by 1) taking its square root (call it s) and then 2) dividing the number being tested successively by numbers 2 ... s. Stop if the division is exact (no remainder) (flunk--not a prime) 3) if you get up to s without an exact division... you score! and have found a new prime number!

I list a few primes:

2 3 5 7 11 13 17 19 23 29 . . . 599

This diversion brought to you by the Las Positas College math staff
and Zombie #599...

--

Grant K7GT Pleasanton CA k7gt@qsl.net <http://www.qsl.net/k7gt>

Date: Fri, 30 Oct 1998 12:02:18 -0500
From: "Hugo W. Catta" <hugo@banet.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23601] W9GR DSP-I (Multiprogram Chip) for sale
Message-ID: <3639F11A.7516A2BE@banet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, Folks.

This is the one with 10 programs (TMS320P15 chip):
4 CW filters, plus Noise reduction, and notch, combined or separated.

It has the "AGC" (clipper), modification and two Audio output jacks. I built it in the same box and style of the one in the 1992 QST cover.

Asking \$100.00 plus shipping.

72,
Hugo
CX9AAK/W2

Date: Fri, 30 Oct 1998 10:00:29 +0000
From: Bertie Hightower <bertieh@extremezone.com>
To: ku7y@dri.edu
Cc: qrp-1@lehigh.edu
Subject: [23602] Re: Fox log for KU7Y
Message-ID: <199810301706.KAA20152@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Ron...

You DA MAN!!! What a great job!!! You were my first fox of the season :-)
I was a little worried that my little "woof" wouldn't get heard, but you did it!!!

73,

Bertie

N7XJW

>
>First let me say what a great group of hounds you all
>were tonight!

<snip>

>The Hounds are the ones who make or break a fox. You all
>were really great tonight! Pat yourselves on the back!
>
>And I was thrilled to hear Bertie make it! Good Job!

<snip>

>20 N7XJW BERTIE 1259 AZ

Date: Fri, 30 Oct 1998 19:14:45 +0200
From: pabraham@NOKNHN01DA.ntc.nokia.com (Abraham Peter NTC/Dallas)
To: qrp-l@Lehigh.EDU ('QRP-L - Mailing List')
Subject: [23603] Need Mag Mount Antenna Help
Message-ID: <1998Oct30.190842.1935.746180@ntcit-mmta18.ntc.nokia.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hello Everybody,

Just bought a Chevy Astro, and the top is not metal (it is a conversion van =
n =
).

I was all excited about our first road trip, as I was making it "radio =
ready", I go to put on
my mag mount antenna and it won't stick!

The only place it will stick is on the hood. My wife said that this was a =
no-no.

Is there any way I can do the "temporary mount thing" and mount it on top of =
f =

the van.

It does have one of those mobile TV antennas, I could maybe tie wrap an = antenna to that (on 2 mtrs), and feed it as a shortened-dipole-inverted-vee(on hf)= .

Any and all advice/wisdom in this area would be greatly appreciated.

-Peter

--

Peter C. Abraham - KB2INO | 1-972-894-5932 voice
RF Engineer | 1-972-894-5874 fax
Nokia Telecommunications | peter.abraham@ntc.nokia.com
<><

Date: Fri, 30 Oct 1998 12:13:57 -0500
From: "ROBERT EVANS" <revans@sarnoff.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23604] Re: cascaded noise
Message-ID: <3639F3D5.AA2AB8AB@sarnoff.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I wrote:
but made a typo error!

> for any two signal processing blocks in cascade.
> g1dB = gain of the first stage in dB
> n1dB = noise figure of the first stage in dB
> n2dB = noise figure of the second stage in dB
>
> now convert dB to a linear factor for each parameter.
> $g1 = 10^{(g1dB/10)}$
> $n1 = 10^{(n1dB/10)}$
> $n2 = 10^{(n2dB/10)}$
>
> now you calculate the cascaded or system noise figure.
> error! $ns = n1 + (n2+1)/g1$

correction : $ns = n1 + (n2-1)/ga$

> convert this back to dB
> $\text{nsdB} = 10 \log (\text{ns})$
>
> and nsdB is the cascaded noise figure in dB.

Date: Fri, 30 Oct 1998 12:17:02 -0500
From: John Levreault <jlevro@mediaone.net>
To: Dan_Tayloe-P26412@email.mot.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23605] Re: Tayloe Mixer
Message-ID: <3639F48D.101ACE57@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dan Tayloe-P26412 wrote:

> I did some reading and discovered something intereseting that is
> probably
> generic to all low noise op-amps: The amount of internally generated
> noise is fixed. However, due to the feedback arrangement that op-amps
> are operated in, the *higher* the gain, the more the internal noise
> is swamped out, and the lower the overall effective noise of the
> amplifier.

This effect is explained in the data sheet for the Analog Devices SSM2016:

"The apparent increase [in noise] at low gains is due to noise incurred in the feedback resistors and second stage becoming dominant. This noise is actually present at all times but becomes masked by input stage noise as the gain is increased."

As with the BB INA103, the "noise vs. gain" curve for the SSM2017 seems to flatten out at a gain of around 30 (~30dB), which may actually be a good compromise for this type of front end. However, a discrete solution can probably be devised that will not have the above limitation.

de nb1i
John

Date: Fri, 30 Oct 1998 09:29:08 PST
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-l@Lehigh.EDU, alenm@hermes.si
Subject: [23606] Re: new qrp home page
Message-ID: <19981030172908.15394.qmail@hotmail.com>
Content-Type: text/plain

Nice job, Alen! We'll look forward to seeing more! 72, Bruce Prior,
N7RR / VE7HR n7rr@hotmail.com

>
>New Qrp home page. Still under construction.
>
>
><http://www.qsl.net/s53ma/index.html>
>
>72 de Alen / S53MA
>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 31 Oct 1998 10:30:08 -0800
From: "Barnaby J.O'Leary" <barnaby@ap.net>
To: QRP-L@LEHIGH.EDU
Subject: [23607] BCB Harmonics at 2940 KHZ
Message-ID: <363B5730.78B7@ap.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang:

Has anyone yet suggest the fundamental freq, of 980 KHZ, the third
harmonic being 2940 KHZ.

72/73

Barnaby KQ6EX

Date: Fri, 30 Oct 1998 12:39:29 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-l@lehigh.edu>
Subject: [23608] FOX: Periodic Rules Reposting
Message-ID: <Pine.OSF.3.95.981030123819.3681B-100000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

1 9 9 8 - 1 9 9 9 Q R P - L F O X H U N T !

Rules are greatly simplified in the one-sentence, Executive Overview! If you've been in the foxhunt in the past, NOTHING has been changed.

Version 3.01

CHANGES FROM VERSION 2.0

- Simplified Scoring, One point per QSO - regardless of anything.
- Friendlier Exchange, Include Names in the QSO.

CHANGES FROM VERSION 3.0

- Removed all "deleted" sections and made the rules easier to read.
- RULE 1.3, changed "SHOULD be QRP" to "MUST be QRP" (same as old rules)
- RULE 2.51, changed "or RF output power" to "and/or RF output power"

EXECUTIVE OVERVIEW

The Fox and Hound make a two-way QRP contact exchanging calls, RST, QTH, Name, QRP-L Number and/or RF output power.

DEFINITIONS

QRP = 5 watts or less RF output from the transmitter.
QRO = any power greater than 5 watts.
QTH = State, Province, or Country if outside US/Can.
Fox = the station everyone tries to work. Also know as foxii, the fox, the wily one, the bushy tailed SOB, etc.
Hound = any station trying to work the fox. Also known as the hound, hunter, hunters, the skunked, the pile-up.
W8KC = Paul Valko, runs the foxhunt. Also known as, =paul=, The collector of TenTecs and other fine plastics, Rule Maker, Rule Definer, Peace Keeper, Butt Kicker, etc.
Split = Classic DX-style operation on two distinctly different frequencies.

RULES

1.0 OBJECTIVE - The objective is to HAVE FUN.

1.1 GENERAL FOX GUIDELINES

- 1.12 Fox try to complete as many two-way, CW, QRP, QSOs - as possible, in a 2 hour long time period.
- 1.13 Fox must post PRIOR to operation day with details (rig, ant, freq) regarding their operation.
- 1.14 Fox will operate within +/- 10Khz of 7.040 MHz but should make an effort to AVOID operating directly on 7.040.
- 1.141 Fox will call CQ FOX, CQ FOXHUNT, etc.
- 1.15 Fox will be allowed to QSY to avoid QRM.
- 1.16 Fox WILL NOT operate "split..."

1.2 GENERAL HOUND GUIDELINES

- 1.21 Hounds ONLY work the Fox.
- 1.211 Hounds ONLY ANSWER the FOX CQ - Hounds DO NOT call CQ FOX.
- 1.22 Hounds must NOT QRM the Fox Frequency after the QSO.
- 1.23 Hounds, work as many Foxii as possible over the 22 weeks of the Foxhunt.
- 1.3 Hound MUST be QRP if giving a qrp-1 number.

2.0 SCORING SYSTEM

- 2.1 One point will be awarded for each successful QSO.
- 2.31 Instructions to get your QRP-L Number are at the bottom of this message.
- 2.4 Maximum points for any one QSO is 3 points, allows incentive for Novice/Tech or Special Event Foxii.

2.5 EXCHANGE

- 2.51 A successful QSO MUST exchange as a minimum Callsigns, RST, QTH, Name, QRP-L number and/or RF output power.
- 2.52 Any other information exchanged (rigs, ant, etc.) is at the operator's discretion but is superfluous.
- 2.521 Operators are welcome to include superfluous detail in the posted report but the FOX LOG must be posted as detailed in rule 3.2.

3.0 REPORTING SYSTEM

- 3.1 Foxii LOGS MUST be posted to QRP-L with a copy also sent to: prvalko@oakland.edu
- 3.11 Posts to QRP-L Regarding the Foxhunt should begin with "FOX:"

to enable filters to do their magic.

3.2 The Foxii log shall have the following layout:

TIME STATION	FOX	HOUND	HOUND	HOUND	HOUND
GMT WORKED	RST	RST	QTH	NAME QRP-L#	POWER

as an example...

0200 w8kc	559	559	mi	Paul 59	2w
0201 wq9rp		579	579	wi Hank	.9w
0202 n8iin		599	559	mi Roy	100w
				TOTAL	3 POINTS

3.3 The Fox is responsible and is to be honorable in reporting scores.

3.31 All information exchanged must be done during the QSO, electronic "fills" via email are not permitted.

3.4 Hounds are encouraged to report both successful AND failed hunts to QRP-L (I do not need a Hound Log). This is also a propagation study, you know.

4.0 SPECIAL FOX EVENTS

4.1 A Special Event Fox may pop up once or twice to keep hunters on their toes. Stay tuned to QRP-L for these announcements.

4.2 A Novice Foxhunt will begin sometime in November.

4.5 There is a "Bye Date" where no fox is scheduled.

4.6 No Foxhunt is planned during Straight Key Night.

4.7 Any "sub-contest" such as "team competition" is the sole responsibility of the person who decides to run one.

4.71 Sub-contests must in no way interfere with the rules and smooth operation of the AUTHORIZED QRP-L FOXHUNT.

1998/1999 FOX SCHEDULE VERSION 1.00

IMPORTANT NOTE - ALL DATES AND TIMES ARE IN GMT. In North America, it'll still be the date BEFORE the date listed below. Really! Over here, the QRP-L Foxhunt takes place on TUESDAY and THURSDAY evenings.

WEEK	GMT DATE	FOX OP	FOX QTH	START TIME(Z)	GMT DATE	FOX OP	FOX QTH	START TIME(Z)
1	10/7	AB5UA		OK 0200	10/9	WQ8RP	MI	0100
2	10/14		WA8GHZ	TX	0100	10/16	W8RU MI	0200
3	10/21		KV2X NY	0200	10/23		K8CV MI	0200
4	10/28		N2TO NY	0100	10/30		KU7Y NV	0100
5	11/4	AB5UA		OK 0200	11/6	N1FN CO		0300
6	11/11		K1MG CA	0200	11/13		WA8GHZ TX	0200

```

7 11/18 AB0GO CO 0200 11/20 K8CV MI 0200
8 11/25 W5TFB TX 0200 11/27 KB7MBI WA 0200
9 12/2 N0UR MN 0100 12/4 WS4S TN 0300
10 12/9 N7CQR OR 0200 12/11 N2TO NY 0200
11 12/16 K5ZTY TX 0200 12/18 N2SMH NJ 0100
12 12/23 WQ8RP MI 0100 12/25 KB7MBI WA 0200
13 12/30 VE7DXJ BC 0200 1/1/99 *** SKN ***
14 1/6 ** BYE DATE ** 1/8 VE7DXJ BC 0300
15 1/13 K0EVZ ND 0200 1/15 N7CQR OR 0300
16 1/20 N2SMH NJ 0100 1/22 W8RU MI 0200
17 1/27 N0UR MN 0100 1/29 WS4S TN 0300
18 2/3 W5TFB TX 0200 2/5 K1MG CA 0100
19 2/10 KV2X NY 0200 2/12 AB0GO CO 0200
20 2/17 K0EVZ ND 0200 2/19 VE7CQK BC 0100
21 2/24 KU7Y NV 0100 2/26 N1FN CO 0300
22 3/3 VE7CQK BC 0100 3/5 K5ZTY TX 0200

```

FOX EMAIL ADDRESSES

Dave Ek <ekdave@earthlink.net>,
 Clifton W Sikes <ab5uacw@juno.com>,
 "Wilford D. Lindsey" <70511.3041@compuserve.com>,
 "Michael A. Gipe" <mgipe@reliablemeters.com>,
 k5zty@juno.com,
 Walt Amos <waltk8cv@ameritech.net>,
 Hank Kohl K8DD <k8dd@contesting.com>,
 ARDUJENSKI@aol.com,
 Monte Stark <ku7y@dri.edu>,
 Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>,
 Lageson's <LAGESON@worldnet.att.net>,
 Marshall Emm <mgemm@mtechnologies.com>,
 David Maliniak <dmaliniak@penton.com>,
 "Kevin F. Glynn" <kfglynn@prodigy.net>,
 Dan Presley <talljazz@teleport.com>,
 Paul Erickson <paule@sfu.ca>,
 "C. Leung" <cleung@cln.etc.bc.ca>,
 Jack Bryant <Jack.Bryant@math.tamu.edu>,
 Ron Majewski <majewski@erim-int.com>,
 JFD / WA8GHZ /5 <jdougher@wt.net>,
 Conard Murray <ws4s@infoave.net>

OBTAINING A QRP-L MEMBER NUMBER

Use this command to obtain a QRP-L member number.

RUN QRP-L X GETNR callsign

example: RUN QRP-L X GETNR W8KC

where "callsign" is your callsign. Send this in the body of a message to LISTSERV@LEHIGH.EDU. Use the word NONE if you don't yet have a

callsign. The list of assigned member numbers can be had via the command, also to LISTSERV@LEHIGH.EDU:

GET QRP-L/MISC MEMBER_NUMBERS.TXT

That's it for now gang! Unleash the hounds!!!

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Fri, 30 Oct 1998 10:42:28 -0700
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-l'" <qrp-l@lehigh.edu>
Subject: [23609] BOOKS
Message-ID: <01BE03F1.FED7A6A0.bmug@gw1.com>

I was in the store last night looking for Solid State Design by Wes Hayward and saw Introduction to Radio Frequency Design by Wes Hayward. Anyone looked at this book? Would it be a good one for me to get (I don't know anything about this stuff)? Should I get it in addition to the Solid State Design? How about get it now and SSD later?

Thanks

de KB0ROL, Brad

Date: Fri, 30 Oct 1998 13:17:42 -0500
From: n1wcc@juno.com (Arol B Hill)
To: qrp-l@lehigh.edu
Subject: [23610] FS QRP RIGS/MISC
Message-ID: <19981030.132308.3454.0.n1wcc@juno.com>

Items left not spoken for yet are

1. Ohr Explorer 40 meter
works great \$75.00 shipped conus
2. A&A engineering (gary breed) 30 meter
finished but not aligned yet \$60.00 shipped conus

Thanks to all, this list is great..
Arol n1wcc

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 30 Oct 1998 13:21:57 -0500
From: "david r" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23611] Hi on 15 mtrs.
Message-ID: <000301be0432\$4a17c420\$433d62ce@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all ,
If anyone needs two way qrp HAWII KH6AFS/QRP is on 21.059 right now , just
worked him.. 72 Dave Kc1di/qrp-l 975

Date: Fri, 30 Oct 1998 10:32:00 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <bmug@gwl.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23612] Re: BOOKS
Message-ID: <002201be0433\$95dd3ce0\$f6564dd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Brad Mugleston <bmug@gwl.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Friday, October 30, 1998 10:07 AM
Subject: BOOKS

>I was in the store last night looking for Solid State
Design by Wes Hayward and
>saw Introduction to Radio Frequency Design by Wes Hayward.
Anyone looked at
>this book? Would it be a good one for me to get (I don't
know anything about
>this stuff)? Should I get it in addition to the Solid
State Design? How
>about get it now and SSD later?

Brad,

Intro to RF Design is, in my opinion, a terrific book. It
uses just enough math
to explain things properly, and if you are comfortable with
basic High School algebra
you won't have any problems.

BTW, I understand that the old Solid State Design is soon to
be superceded by
a new version, written by W7Z0I and KK7B.

72,

John, K6QQ

Date: Fri, 30 Oct 1998 13:34:43 -0500
From: Scott Howell <whowell@hq.nasa.gov>
To: cw@qth.net
Cc: qrp-1@lehigh.edu
Subject: [23613] Hi-Mound MK702 single lever paddle for sale/trade
Message-ID: <3.0.5.32.19981030133443.007ecc90@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I now have two single lever paddles so in the interest of keeping funds available for new keys, I have the following key for sale. The Hi-Mound MK702 is a single lever paddle mounted on a 3/4 inch thick piece of natural Marble. It is a beautiful key. Fully adjustable. To see picture or more info look at the MOrse Express site <http://www.morsex.com>.

I am asking \$65 shipped or let me know if you have something in trade.

tnx es 73 de Scott/n3byy

Date: Fri, 30 Oct 1998 11:41:49 -0700
From: Brad Mugleston <bmug@gwl.com>
To: "'qrp-l'" <qrp-l@lehigh.edu>
Subject: [23614] Books
Message-ID: <01BE03FA.48E495C0.bmug@gwl.com>

Looks like the SSD book is the first one to get then get the Radio Design book.

Brad

Date: Fri, 30 Oct 1998 13:46:10 -0500
From: "ROBERT EVANS" <revans@sarnoff.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23615] noise in cascade
Message-ID: <363A0972.9E914C75@sarnoff.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

final corrected copy:

for any two signal processing blocks in cascade.

g1dB = gain of the first stage in dB

n1dB = noise figure of the first stage in dB

n2dB = noise figure of the second stage in dB

now convert dB to a linear factor for each parameter.

$g1 = 10^{(g1dB/10)}$

$n1 = 10^{(n1dB/10)}$

$n2 = 10^{(n2dB/10)}$

now you calculate the cascaded or system noise figure.

$$n_s = n_1 + (n_2 - 1)/g_1$$

convert this back to dB

$$n_{sdB} = 10 \log (n_s)$$

and n_{sdB} is the cascaded noise figure in dB.

Date: Fri, 30 Oct 1998 10:55:59 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <qrp-1@lehigh.edu>
Subject: [23616] MAIL LOST
Message-ID: <008001be0436\$ef3dc360\$f6564dd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Sorry to take up bandwidth, but there were so many postings
to the list
during my recent trip, that my mailbox overflowed and many
messages were
lost.

So, if you sent me any mail of importance between 17 October
and now,
please do so again.

72,

John, K6QQ

Date: Fri, 30 Oct 1998 13:54:49 -0500
From: "C. Lamar Derk" <n3at@epix.net>
To: Low Power amateur discussion <qrp-1@lehigh.edu>

Subject: [23617] Filter
Message-ID: <363A0B79.5CC6@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Can anyone tell me how to filter out messages in which I am not interested, e.g. Those relating to fox hunting? Would appreciate some guidance in this matter.

72 de Lamar

Date: Fri, 30 Oct 1998 13:20:08 +0000
From: "Bryan Turner" <turnerw@email.uah.edu>
To: n3at@epix.net
Cc: qrp-1@Lehigh.EDU
Subject: [23618] Re: Filter
Message-ID: <199810301923.NAA16170@uahis1.uah.edu>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

>Can anyone tell me how to filter out messages in which I am not
>interested, e.g. Those relating to fox hunting? Would appreciate some
>guidance in this matter.

It depends on the program you are using. Some (such as Juno) have no mail filtering provisions, while others have quite sophisticated functions. If you could send the name of your program, a user of this program on the list can send you instructions.

My program (Pegasus Mail) has extensive filtering functions. Not only does it automatically delete any message with fox in the subject, but I have set it to delete any message with any of the contest teams' names inside the message. Mail filtering also works great to delete any message that contains repeated quotes in signature files.

73 Bryan W8LN

Date: Fri, 30 Oct 1998 13:27:40 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [23619] FOX:Team Scores (fwd)
Message-ID: <Pine.LNX.3.95.981030131725.15346A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...Team scores after hunt #8 - KU7Y - ...

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

The 40 mtr Fox Hunt Team Scores

...the Kentucky Porch Houndz - 6.000 - hounds -> KA80KH,NU4N
"CLEAN SWEEP!"

...the Houston Hounds - 5.150 - hounds -> K5ZTY,W5SB,KQ5U

...the Vibro-Fox Finders - 4.750 - hounds -> WE6W,WB5QYT,K2VCO

...the Fox Nabbers - 4.329 - hounds -> W0CH,W5FN

...the Underdogs - 4.247 - hounds -> N4ROA,KI0II

...the Brass Pounders - 4.000 - hounds -> AB8DF,KB7MBI
"CLEAN SWEEP!"

...the Texas Tarantulas - 3.250 - hounds -> K5LN,N5TW,W5HNS

...the Northern Lights - 2.664 - hounds -> VE7CQK,VE5RC,VE2KN

...the Swords - 2.331 - these hounds are hungry.

...the Jersey Diddles - 1.366 - these hounds are still hungry

...the Team Apathy - 1.332 - hounds -> K7TQ,AB7TT

Date: Fri, 30 Oct 1998 11:52:43 -0800
From: Terry Conboy <terry.conboy@airtouch.com>
To: qrp-1@Lehigh.EDU
Subject: [23620] Re: how to measure SSB power
Message-ID: <4.1.19981030111347.009e2c10@mailhost.tnc.airtouch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:32 PM 10/29/98 -0600, Dave, N0IT wrote:

>I believe that peak envelope power is 1.414 x the average power and that
>average power is roughly .7 x key down power. If that is correct and I
>believe it is, then PEP is greater than key down cw power.

For a CW signal during key down, Peak Envelope Power = Average Power = Key down power.

(There may be some confusion with the ratio of peak voltage to RMS voltage for a sine wave being 1.414:1. Remember that PEP is just the power that a CW signal would have if it had the same peak voltage as the signal in question.)

For a SSB signal, the ratio of PEP to average power depends on the voice characteristics and the amount of speech processing. Some people say it is 2:1 (3 dB), but YMMV.

Here's a NON-QRP example of this type of issue (hit DELETE now, if you like). In some 800 MHz cellular transmitters, they use wideband linear power amplifiers that are used to combine several voice channel (FM) signals and amplify them for connection to an antenna feeder. These amps have PEP capabilities of around 2000 watts, while the power of each of 16 FM signals is only 10 watts (almost QRP), giving only 160 watts of average power total. Thus the PEP to average power ratio is 12.5:1. This is required, because occasionally, all of the 16 signals are simultaneously at their peak voltage and the instantaneous peak power is related to the voltage squared ($16^2 = 256$). Oh, but wouldn't the amp need to be capable of $10 * 256 = 2560$ watts PEP? Yes, but in practice, the worst peaks occur infrequently and for a very short duration and contribute only a little to the energy of the intermod signals that are produced when the amp clips the extra ~1 dB of the peaks off. (These are feed-forward designs with IM down 60 dB from the average power per FM carrier!)

72 (or 74), Terry

--

Terry Conboy <http://www.qsl.net/n6ry> Tel: +1-925-210-3475
N6RY CM97aw terry.conboy@airtouch.com Fax: +1-925-210-3469

Date: Fri, 30 Oct 1998 14:00:12 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-l@lehigh.edu
Subject: [23621] A Small Note with a lot of Prime Numbers.
Message-ID: <3.0.5.32.19981030140012.008d4410@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

Here is a good checklist of primes for tonight - your ultimate source of
Zombie math.

2	3	5	7	11	13	17	19	23	29
31	37	41	43	47	53	59	61	67	71
73	79	83	89	97	101	103	107	109	113
127	131	137	139	149	151	157	163	167	173
179	181	191	193	197	199	211	223	227	229
233	239	241	251	257	263	269	271	277	281
283	293	307	311	313	317	331	337	347	349
353	359	367	373	379	383	389	397	401	409
419	421	431	433	439	443	449	457	461	463
467	479	487	491	499	503	509	521	523	541
547	557	563	569	571	577	587	593	599	601

Primes above 600 deleted since they would be non-zombies and just area
codes :-)

Please, no thread or flames. Just seemed like a neat list. BTW, I'm
Zombie No. 337 - as prime as it can be.

Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Fri, 30 Oct 1998 12:07:36 -0800
From: Terry Conboy <terry.conboy@airtouch.com>
To: qrp-1@lehigh.edu
Subject: [23622] Re: SHUNT MATCHING
Message-ID: <4.1.19981030115350.00a2a4f0@mailhost.tnc.airtouch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:15 AM 10/30/98 -0500, KB7MBI wrote:
>QUESTION: Is the shunt coil a good method for matching or is it generally not
>necessary?
>
>(For those not familiar with this. the base of the vertical is connected to
>the ground/groundplane via a coil. The coax shield is connected to the bottom
>of the coil and the center conductor is moved along the coil (or vise versa)
>until the SWR is minimal).

I use shunt matching on my very short 80 meter antenna. It has about an 8 ohm radiation resistance, and a hairpin of 3/4 inch copper pipe spaced 6 inches on centers and 3 feet long raises the impedance nicely to 50 ohms. Lumped inductors work the same, but may have higher losses.

For verticals around 1/4 wavelength high, the impedances are normally about 35-40 ohms (plus ground loss R) and you may not need to worry that much about matching at the antenna (since the added losses from SWR are minimal). The most critical problem with a phased array is getting the currents in the elements to be the right phase and amplitude, since the mutual coupling between the elements drives the operating impedance to some strange values, especially with 90 degree phasing. Guru W7EL has developed some nice schemes for doing this (in ARRL Antenna Compendium 2 or the Antenna Book).

72, Terry

--
Terry Conboy <http://www.qsl.net/n6ry> Tel: +1-925-210-3475
N6RY CM97aw terry.conboy@airtouch.com Fax: +1-925-210-3469

Date: Fri, 30 Oct 1998 13:18:22 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-1@lehigh.edu
Subject: [23623] Re: Prime numbers
Message-ID: <199810302010.NAA18302@enterprise.extremezone.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Thanks to Grant for letting us know how to figure out who is 'Prime' for tonight's festivities.

Here is a table of the prime numbers within the list of the first 1000 Zombie badges:

The First 168 Primes

For more information on primes see
<<http://www.utm.edu/research/primes>><http://www.utm.edu/research/primes>

2	3	5	7	11	13	17	19	23	29
31	37	41	43	47	53	59	61	67	71
73	79	83	89	97	101	103	107	109	113
127	131	137	139	149	151	157	163	167	173
179	181	191	193	197	199	211	223	227	229
233	239	241	251	257	263	269	271	277	281
283	293	307	311	313	317	331	337	347	349
353	359	367	373	379	383	389	397	401	409
419	421	431	433	439	443	449	457	461	463
467	479	487	491	499	503	509	521	523	541
547	557	563	569	571	577	587	593	599	601
607	613	617	619	631	641	643	647	653	659
661	673	677	683	691	701	709	719	727	733
739	743	751	757	761	769	773	787	797	809
811	821	823	827	829	839	853	857	859	863
877	881	883	887	907	911	919	929	937	941
947	953	967	971	977	983	991	997		

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Fri, 30 Oct 1998 13:18:46 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Monte Stark <ku7y@dri.edu>, qrp-l@lehigh.edu
Subject: [23624] Re: Fox log for KU7Y
Message-ID: <199810302016.NAA17287@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi, Ron--

>>There were NO dupes! Total QSOs was 101.<<

Not sure if that's a record, but if not I know it's close. Very nice job, but not so sure I appreciate the standard you have set [g]. A tough act to follow!

Your usual excellent signal into Denver, of course, and thanks for hearing me promptly-- Straight off from there to dinner with a visiting QRPer/CQC member and pleasant evening of radio chat which ended at about 1:30 this morning, so I will definitely qualify as the living dead tonight.

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

Morse Express

"Everything for the Morse Enthusiast"

<http://www.MorseX.com>

(303)752-3382

--

Date: Fri, 30 Oct 1998 13:20:00 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Ed Manuel <n5em@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23625] Re: Zombie Prime Numbers
Message-ID: <Pine.SOL.3.91.981030131541.27274I-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ed,

Thanks for posting the "check list" of prime numbers. That will help us all.

Email requests for Zombie numbers are still coming in, which I hope to assign up to about contest time tonite. Last number issued is 544, with 555 (requested by John WB6MFS) and 599 (Grant K7GT) also assigned. So I'm sure up to 601 will cover us -hi.

(I made 10 patrols on the SSBN-601 and never realized it was "prime")

72, Paul NA5N

Date: Fri, 30 Oct 1998 15:24:50 EST
From: SABorns@aol.com
To: qrp-l@lehigh.edu
Subject: [23626] OHR-500 ON AIR
Message-ID: <a4dae318.363a2092@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

My new Oak Hills OHR-500 is up and running. For those of you who are currently building-
stick to it, you are going to really like the results. The most remarkable feature of the new rig is how quiet the receiver is. My old 400 was good, but the 500 is much better. The rig puts out in excess of 5 watts on all bands but 15 where it puts out 3 (at 13.8v). Incidentally, Dick suggests a power level of 4.5 to 5 as being optimum. I like this rig !!!!!!! Back to a few more "tests".

73, Steve K8IDN

Date: Fri, 30 Oct 1998 15:54:33 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: pharden@aoc.nrao.edu, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23627] RE: Zombie Prime Numbers
Message-ID: <21E06269B00ED111BE9B00805F6D0FA34521E2@mailserver1.usaninc.com>
MIME-Version: 1.0
Content-Type: text/plain

Paul,

I'm confused. Have I mixed the prime number thread with the zombie numbers? My Zombie # is 273 (not prime) and I noticed that you were #004 I believe. Just wondering. I'm sure that some of the other old farts are also confused.

Sam Billingsley AE4GX Atlanta, GA Zombie #273

> -----Original Message-----
> From: Paul Harden [SMTP:pharden@aoc.nrao.edu]
> Sent: Friday, October 30, 1998 3:20 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Zombie Prime Numbers
>
>
> Ed,
> Thanks for posting the "check list" of prime numbers. That will help
> us all.
>
> Email requests for Zombie numbers are still coming in, which I hope to
> assign up to about contest time tonite. Last number issued is 544, with
> 555 (requested by John WB6MFS) and 599 (Grant K7GT) also assigned. So
> I'm sure up to 601 will cover us -hi.
>
> (I made 10 patrols on the SSBN-601 and never realized it was "prime")
>
> 72, Paul NA5N
>

Date: Fri, 30 Oct 1998 13:53:03 -0700
From: "James R. Duffey" <ji3m@maxwell.com>
To: Dan_Tayloe-P26412@email.mot.com
Cc: qrp-1@Lehigh.EDU
Subject: [23628] RC Combinations to Reduce Noise?
Message-ID: <v0300780cb25fd14b146d@[199.120.49.100]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dan - I am not sure that decreasing the R and increasing the C will reduce the noise in the phase delay sections of single signal direct conversion receivers. I suspect that increasing C and decreasing R is a break even proposition. You wrote;

"I did not use the values that the R2 used in the phase delay section. The RC product sets the phase delay breakpoint frequency in these phasing sections, so I increased C and decreased R for the exact noise fear you expressed. I did not go as far as I would like. I found some 0.01 uf polystyrene caps (a previous Dan's Small Parts special) in my stash and used those. Later I found some compact 0.15 uf caps, but I was reluctant to tear everything apart just to try those."

Good call.

I think that the noise will remain the same (at least to first order) no matter what RC combination you use. The reason is that the integrated noise of an RC combination is given by kTC where k is Boltzmann's Constant, found in everything Thermodynamical, T is the absolute temperature, and C is the capacitance. This result is only good for situations where the bandwidth over which the noise is integrated is determined by the RC combination, but I think that is so in the phase delay sections.

This is an unusual result (at least it was to me when I first crossed it), and seems antiintuitive, since it does not depend on the resistance, which is the sole source of the noise. The reason is that the noise is integrated over different bandwidths depending on the RC combination. So, a higher magnitude noise power density is integrated over a narrower bandwidth than a lower magnitude noise power density is integrated over.

Consider an RC combination. The noise power generated by the resistor is proportional to kT/R . Now to determine the total noise we need to integrate over the bandwidth of interest. If the bandwidth of interest is determined by the RC combination, then the upper limit of integration is RC , and the total integrated noise given by $(kT/R)(RC)$. The value of the resistance does not appear in the final result but it is the source of the noise!!

I was glad to see your posting on the new mixer as it has improved the signal to noise ratio of the list tremendously. Is there a simialr mux chip packaged in a DIP so that us farsighted old coots can build your circuit??-
Dr. Megacycle KK6MC/5

James R. Duffey <jr3m@maxwell.com> (505) 764-3143
Maxwell Technologies Inc. http://www.maxwell.com/
2501 Yale Blvd SE Suite 300
Albuquerque, NM 87106-4200

Date: Fri, 30 Oct 1998 11:23:48 -0800
From: "Barry L. Geipel" <bgeipel@primenet.com>
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23629] FOX: California woes
Message-ID: <199810301922.LAA19097@newspaper.cwi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, this time I was sure that I was going to get the fox.

I tuned up my trusty HW-8 and quickly found the fox. This is the first time this season that I even heard the fox!

Okay, the fox is working RIT. The HW-8 has a direct conversion receiver. Here come the QSL TU - tune up a bit, send my call, tune back down around there, wait, if he comes back, where do I tune back up to? This ain't going to work, I'll just call on his freq. Wait, where did he go? Try again, finally, there he is. Call, Call, where are the hounds, none heard, just the fox, tune up to find the hounds, none, tune back to find the fox, gone...

Oh well. You were 559 in the Los Angeles area for at least 20 minutes, but nothing heard from the fox or hounds for the last 1 1/2 hours of the hunt. I continue my Southern California Fox Hunting woes.

Still looking for my first ever pelt.

On other notes, I did work Japan on 15 meters and Illinois on 20 meters yesterday so I am doing okay on the higher bands. On 40 meters, I seem to only hit stations to the North so watch out any Washington State Foxii!

73 de KF6RDI - Barry

Date: Fri, 30 Oct 1998 16:26:09 EST
From: jalbertin@juno.com (Jerry Albertin)
To: qrp-1@lehigh.edu
Subject: [23630] Few Items For Sale...cheap
Message-ID: <19981030.162402.5495.2.JAlbertin@juno.com>

Have the following items that I would like to find an new home for.

MFJ Versa Tuner II model 941..Matches balanced, unballance and long wires
Very Good condition \$25 plus shipping

MFJ Iambic key model 564. This is chrome base and in very good to
excellent
condition \$25 plus shipping

Yeasy FIF-232C Cat System.. got it with my 767gx and never hooked it up.
Looks new but never used so condition is unknown. Complete with
caty767.exe
software, source code and compiler. \$25 plus shipping

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 30 Oct 1998 16:26:17 -0500
From: Scott Howell <whowell@hq.nasa.gov>
To: cw@qth.net
Cc: qrp-1@lehigh.edu
Subject: [23631] Hi-Mound MK702 for sale/trade reposted
Message-ID: <3.0.5.32.19981030162617.007db970@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

sry, I ment to put in my original post taht I am asking \$65 shipped or
will trade for paddles, keys, or bugs if its something I do not have or
would like.

In any rate its a beautiful single lever paddle on a 3/4 inch thick natural
Marble base. I have two single lever paddles now so want to make funds
available for other keys or perhaps even a keyer.

Would like to find a Logikey or something similar in features. One feature
I want in a keyer is one that takes cw commands or uses buttons with cw
response and has the ability to swap the dits and dahs.

So, any intrested parties can contact me at whowell@mail.hq.nasa.gov

tnx es 73 de Scott/n3byy
Laurel MD
Fists #5030

Date: Fri, 30 Oct 1998 17:00:18 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [23632] FW: Zombie Prime Numbers
Message-ID: <21E06269B00ED111BE9B00805F6D0FA3452217@mailserver1.usaninc.com>
MIME-Version: 1.0
Content-Type: text/plain

Sorry if I confused anyone. Hopefully Paul's message will set the record
straight.

>>>snip >>>

> Sam,
> The Zombie numbers are assigned sequentially. For the Zombie Shuffle,
> you get 666 points for working 3 prime numbers as a bonus point. So
> the prime number list posted was just so you know if you worked any
> Zombies with prime numbers.
>
> GL and have fun!
> Paul NA5N #004
>
>>>> snip >>>>
Paul,
I'm confused. Have I mixed the prime number thread with the zombie numbers?
My Zombie # is 273 (not prime) and I noticed that you were #004 I believe.
Just wondering. I'm sure that some of the other old farts are also confused.

Sam Billingsley AE4GX Atlanta, GA Zombie #273

Date: Fri, 30 Oct 1998 14:01:14 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [23633] Another Grand Zombie
Message-ID: <01be0450\$d07e8580\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I weaseled two Zombie badges out of Paul, #3 and #5, thinking that one of the low numbers would be really good some day! Well, that day arrived yesterday. I was talking to Dave Fifield and said that I had the two numbers below 25 and it was really a shame that I had them as it would be impossible to do justice to both in the Zombie contest. Dave alertly volunteered to take #5 off my hands, so Dave Fifield, AD6AY is now Zombie #5 and will be worth extra bonus points tonight. Listen for him and also for KI6DS, Zombie #3 which is not only a grand zombie but is also a prime number. But, I ain't wearing a dress for anybody, so forget those bonus points. Hope to hear you on the air tonight. I'll be on 40 meters. Listen carefully and have fun!! 72, Doug, KI6DS

Date: Fri, 30 Oct 1998 14:10:11 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [23634] Schematics for Elmer 200 on K5F0 Web page?
Message-ID: <01be0452\$109b5fc0\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I looked at the K5F0 web page and I did not find the schematic for the first lesson in the Elmer 200 course there. Did I miss it? Hopefully they will appear there, as I have not figured out how to do it in Spice. Can someone help??? 72, Doug, KI6DS

Date: Fri, 30 Oct 1998 13:01:22 -0800
From: Bob Painter <turnkey@exo.com>
To: qrp-l@Lehigh.EDU
Subject: [23635] ZOMBIE SHUFFLE - Tech+, KF6NKH - Operating time and freq
Message-ID: <199810302100.NAA21687@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi ZOMBIE SHUFFLERS

I will be listening and cq'g from 7pm to 10pm or 0300 to 0700 UTC.

If it is open, I will gravitate to 7.113 (have a birdie at 7.110) and will search as far up as 7.123. Operating at a deadly speed of 5 to 8 WPM.

Hope to work some of you tonight.

72, Bob, KF6NKH

Date: Fri, 30 Oct 1998 18:01:23 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Cc: "NJQRP" <NJQRP@njqrp.org>
Subject: [23636] Atlanticon announces first speakers!
Message-ID: <011801be0459\$3be90540\$943984a9@herong.dialogic.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Following up on our initial announcement of the "Atlanticon 99 QRP Forum" this week, I'm very pleased to tell you all that our speaker list for Atlanticon is already filling up and it looks like it's going to be an **outstanding** lineup of presentations and papers!

Confirmed speakers are among the most prominent and prolific QRPers in our community:

- Dave Benson, NN1G
- LB Cebik, W4RNL
- Joe Everhart, N2CX
- Steve Weber, KD1JV

Additional speaker invitations are still pending, and the presentation topics are being formulated ... but this first-of-a-kind major east coast QRP forum is already shaping up to be a grand success.

As a reminder of what we're doing, the NJ-QRP Club is sponsoring a QRP symposium on the east coast next year modeled after the very popular and successful "Pacificon West Coast QRP Symposium" run by NorCal. Similar in construct, Atlanticon features a full day of exciting QRP talks delivered by leaders in our hobby, an open house hospitality suite the preceding evening for show 'n tell 'n gab, and a "building contest" in our hospitality suite the evening of the talks.

And attending Atlanticon will not cost you anything ... admission will be free. The Atlanticon 99 Proceedings will also be provided free of charge for all attendees.

Atlanticon is a project of the New Jersey QRP Club -- it is not affiliated with NorCal, QRP ARCI, or any other club or organization. We are funding Atlanticon with proceeds from our club's kit sales and it is our way of giving back to the QRP community.

The dates and location for the Atlanticon QRP Forum are still being negotiated with the various events occurring along the eastern seaboard during 1999. We are making every effort to ensure that it does **not** interfere with other notable and valued QRP events also happening during the spring, summer and fall. Thus, competition for speakers or attendees will not be an issue ... there's more than enough good material and time during the year to provide us all with some fabulous QRP-related excitement, no matter where you are geographically located!

The NJ-QRP website will be kept current with all information and the latest

breaking news concerning speakers, topics and location, so stay tuned for details as they develop.

Thank you all for all the encouragement received by e-mail this week. We in the NJ-QRP are all very excited and proud to have the opportunity to provide such a service back to our community, and we sure hope you can attend the "Atlanticon QRP Forum" this coming year!

72/73,

--George Heron, N2APB

n2apb@amsat.org in Sparta, NJ

<http://www.njqrp.org> <-- Home of the NJ-QRP Club!

Date: Fri, 30 Oct 1998 15:30:00 PST
From: wa4dou@mailexcite.com
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23637] re: Items for sale
Message-ID: <909790200.15471.539@mailexcite.com>
MIME-Version: 1.0
Content-Type: text/plain

Hi Gang,

Am getting married and cleaning the shack out ,so i can get a new rig(like maybe the OHR-500).

Have the following items for sale:

1) Ten-Tec Century 21 (analog), 20 years old,
with documentation, average good condition, a good inexpensive workhorse
rig, with a new pair of MRF-475(matched from RF GAIN), shipped prepaid in
CONUS--\$150.

1)OHR Explorer II for 20 meters, meticulously built.Shipped prepaid in
CONUS--\$80.

1)Realistic DX-394 Receiver, 1 month old.Shipped prepaid in CONUS--\$150.

1)Realistic DX-375 Short Wave receiver, shipped prepaid in CONUS--\$50.

1)6 meter Cushcraft Ringo(no ship-available locally only) \$30.

1)10 or 12 element 2 meter Cushcraft yagi(no ship-available locally only)
\$35.

1) Hamtronics Transmitting converter, 28 mhz. in-432 out, kit
form-unbuilt, with full documentation, shipped prepaid in CONUS--\$50.

1) Hamtronics Transmitting Converter, 28 mhz. in-144 mhz. out, kit form,
unbuilt, with full documentation, shipped prepaid in CONUS--\$50.

Thanks es 73 Roy Lincoln WA4DOU

Get your free, private e-mail at <http://mail.excite.com/>

Date: Fri, 30 Oct 1998 15:37:33 -0800
From: talljazz@teleport.com (Dan Presley)
To: qrp-1@LeHigh.edu
Subject: [23638] Elvis
Message-ID: <v01530509b25ffcd746ee@[204.202.173.221]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Your special "Elvis" zombie will be on from 0000Z to 0130Z (sorry for short notice!) and then again at the real zombie hour of 0900z! I'm awaiting permission from the head zombie to make a late appearance, but like dx, work 'em first, worry later. In true Elvis fashion, I have to make a public appearance (not in costume) in the interim hours. I will be wearing my Church of Elvis t-shirt, however.
Dan N7CQR

Date: Fri, 30 Oct 1998 17:39:42 -0600
From: "Karl Heimbach" <heimbach@concentric.net>
To: <qrp-1@LEHIGH.EDU>
Subject: [23639] MFJ 9020 for sale
Message-ID: <002201be045e\$93ca05c0\$620505ac@pentium>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Still trying to finance an OHR 500, so selling my MFJ 9020 with keyer and audio filter boards for \$105 plus \$5.00 shipping.

Karl - W5QJ

Date: Fri, 30 Oct 1998 23:40:49 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23640] Resonant Speaker Research
Message-ID: <363A4E81.5591@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'm still chuckling over Paul Harden's technical description title for his Pacificon Talk.

So here I am researching the following:
"Acoustic Apparatus employing negative Impedance driven antiphasic Damped resonating chamber of the Helmholtz family." <very big grin>

You know, this research is fascinating. Anyone want to hire a non-degreed but enthusiastic acoustical engineer???

My current research has uncovered numerous patents on associated principles to which apply to my design for a resonant Speaker device.

Unfortunately, everything to date is convoluted in that they don't want limited bandwidth devices, specifically the designs focus on reducing self-resonance of the speaker to limit cone excursion, thereby allowing it to be driven harder. Also Low and High frequency corrective response enclosures purporting relatively flat response within the desired audio "music" range.

So the Voigt Pipe speaker should be the Anti-Voigt. (Visit Norway!)

And the laptop speaker chamber should be closed, not open.

And resonant tubes have frequency and Air mass issues which must match the speaker in question.

And with all this I've learned about Boom Pipes and childrens' music classes, Organ pipes and Master builders....Tubes for spacial music experiences, the Tractrix coutour, etc. etc.

Folks, my brain has expanded, it is nearly as large as my ego!! <g> Which already enters the room 15 minutes before I do.

Sure this research is opening new doors. But how am I to pass thru them with my newfound brainpower :) (Is it Friday?)

Here's some of the exciting places I've been and learned from:
Tractrix Countour formulas:
http://home.sol.no/~ketilp/bigfunht.html#HD_NM_17

Voigt Pipe:
<http://home.sol.no/~ketilp/voigtpip.html>

Childrens 'Boom Pipes':
<http://www.concord.k12.nh.us/schools/bgs/music/pipes.html>

Exploratorium 'Sound and Hearing' experiments:
http://www.exploratorium.edu/xref/area_index.html#sound

Check out these PORT Designs!! (7th Order Bandpass Woofers)
<http://www.v-i-b-e.com/bm.htm>

Here's some serious 'tube' work. Wish I could visit personally!!!!
Caution: page downloads slowly. Well Worth it!!!
If you can only visit one page then cut to the chase
with: <http://www.proximity.com.au/~rodney/tubes.html>

Or visit their main page at
<http://www.proximity.com.au/~rodney/soundworks.html>

Those pages should open some eyes!!!

I won't even go on and on about all the patents I've digested.

But basically learned about boundary buffering, the helmholtz formula memorized, Resonance List server and archives :)
Active exhaust noise cancellation speakers, heck!!! I could

go on and on. I'm about to remove the toilet float chamber
for my next design!

Maybe I'll start smoking a pipe?

CQZ tonight --> B00!!!

See ya at nightfall....
72 es happy Friday --

Adieu'

-Ed

--

72, Ed WE6W (CW only/VP-0); <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

Date: Fri, 30 Oct 1998 16:42:47 -0700
From: Niel Skousen <nskousen@scientechnology.com>
To: qrp-l@lehigh.edu
Subject: [23641] Not QRP...
Message-ID: <199810302341.QAA12809@if.scientechnology.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi guys, pardon the bandwidth BUT... could use some input advise...

I work in a basement, florescent light, bad air etc. Fixing the light prob
w/ some full spectrum lamps.

Looking for advise on these little air fresheners/ionizers/what ever..
Anybody got the latest real scoop on bad air to good in a closed space w/
poor circulation ?

TNX agn

Niel

Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG, NUSI WA7SSA
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID
nskousen@scientechnology.com DN33wm . . . -z

Date: Fri, 30 Oct 1998 16:53:40 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Dan Presley <talljazz@teleport.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [23642] Re: Elvis
Message-ID: <Pine.SOL.3.91.981030164838.11515A-1000000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 30 Oct 1998, Dan Presley wrote:

> Your special "Elvis" zombie will be on from 0000Z to 0130Z (sorry for short
> notice!) and then again at the real zombie hour of 0900z! I'm awaiting
> permission from the head zombie to make a late appearance,

Hey, if you find some activity after your local midnite, go for it.
There may be some night owls that can't get on until quite late. Nothin
sacred about quitting at midnite, other than you really don't want to
encourage TOO many people to work a contest at 2am ... but then again,
if you want to ...

72, Paul NA5N

I'm almost out of here, then dinner, then to the shack. Hope to work
a lot of you in just awhile.

End of QRP-L Digest 1261

